capacity of crane, 100 tons; vertical impact amounting to 70% of the crane capacity and horizontal impact amounting to 20% of the crane capacity. Each girder was designed on this basis for a vertical load of 480,000 lb. total (made up of 200,000 net lifted load, 100,000 lb. representing half the weight of crane structure, 40,000 the weight of the carriages and 140,000 the vertical impact) and 40,000 lb. horizontal load due to impact of traveling carriages fully loaded.

It happened that the traveling crane of the turbine house was needed long before the house itself. The generator stators, on account of their size, had to be shipped in two parts, and therefore had to be built up with the core laminations and windings after arrival on the ground. This required the service of a crane of heavy load capacity. It was decided to use the regular traveling crane of the turbine house. Therefore one panel of the turbine house, with its crane girders, was erected, and the traveling crane set in place. A 100-ft. gin-pole did this steel erection. Then two wooden shacks were built in the panel (see view, Fig. 1), as housing within which the assembly (left) and winding (right) went on. Removable roof sections provided for lifting the stator castings and material in and out.

The view, Fig. 1, shows the turbine house shortly after erection of the remaining steelwork was started. The crane, however, is shown in the same position it occupied when only the braced end panel of the frame was up.

The steam turbines are carried on steel framework independent of the framing of the house. This consists of a column-and-girder platform designed to accommodate the condensers under the turbines, on lines similar in a general way to those described in our issue of Jan. 14, 1915, page 66. These turbine-foundation columns are set on piers and walls built on the foundation mat. The steelwork of the platform between the outside girders was filled with concrete to insure rigidity of the joints. The box columns are filled with a concrete grout poured in from the top, 2-in. holes being left for this purpose in the channels of the columns. The space between the columns and kneebraces is likewise filled with concrete to give rigidity to the joints.

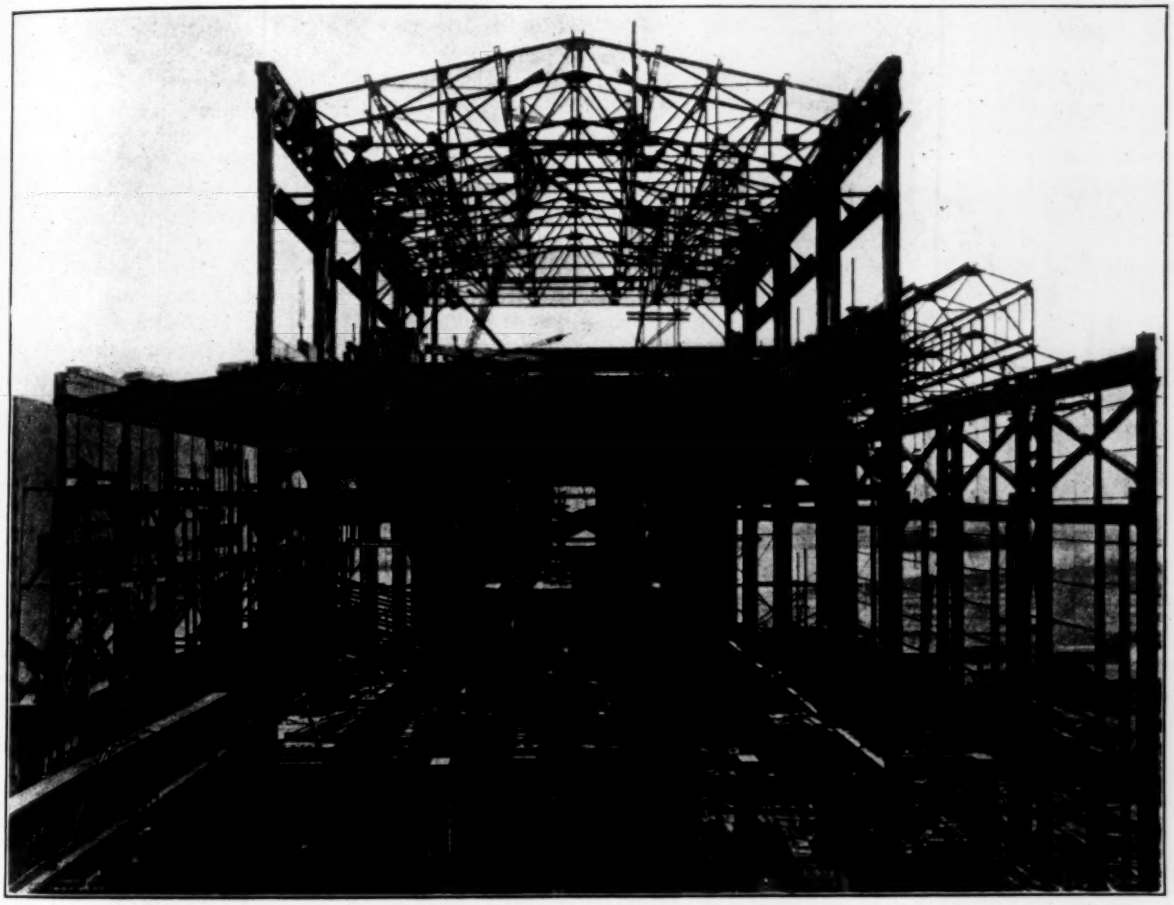


FIG. 5. WEST END OF BOILER HOUSE, VIEWED AT LEVEL JUST BELOW STACK FLOOR
Note diagonal bracing transverse to building to resist the wind pressure on the stacks

The width of the turbine house is more than ample for the 25,000-kw. turbines, of which two have been installed at present. The third unit, which the present section of the turbine house has been designed to accommodate, may be of larger size. The designers figure, however, that the turbine room is of ample width to accommodate the largest steam turbine likely to be built in the future. For this reason, although the turbine house accommodates three units, the foundation framing has been designed and built for only two of them. The support for the third would depend in proportions and strength on the turbine to be subsequently adopted here.

The general arrangement of the boiler house is represented fairly well by the cross-section in Fig. 4 (see also view, Fig. 5). The extension of the house is to be by the addition of successive boiler and firing aisles which will be duplications of the present structure.

Special features of the framing are: (1) The arrangement of the transverse bracing, (2) the use of auxiliary columns under the bridge, front and rear walls of the boiler furnaces to reduce the weight of metal in the girders otherwise necessary and (3) the arrangement of the roof framing on the economizer floor.

The attic story, or economizer room, of the building will receive the economizers, and clear space had to be provided between the roof trusses sufficient to pull out economizer tubes. By this requirement, in conjunction with the location of the two steel stacks, the spacing of the roof trusses and diagonal bracing was determined. The locations thus fixed did not coincide with the column locations, and the roof trusses are therefore carried on longitudinal eave girders of truss construction, running along either side of the building. However, it was desired to secure the same lateral stiffness that would have been obtained with roof trusses framed directly into the columns and provided with kneebraces. To this end each roof truss is fitted with a deep kneebrace at either end, and a plate girder in the plane of the kneebraces on other side of the building transfers the reactions to the columns, thus making this structure rigid against wind.

The necessity of leaving clearance for the economizer tubes also made it impossible to put in the usual lower-chord lateral bracing. The matter of bracing was therefore worked out by using lower-chord laterals inward from the eaves to the first main panel point, thence carrying a diagonal system back and up to the top chord in the plane of a truss diagonal and continuing across the middle of the roof span in the plane of the top chord.

Longitudinal bracing of the building is provided in the bays adjacent to the stack by full diagonals in all the lines of columns transferring the reactions over as large a base as possible. This bracing is clearly shown in Fig. 4.

Brick-Lined Stacks 270 Ft. High

The two steel stacks are supported at the level of the economizer floor, each by a system of 96-in. plate girders arranged in a square. The columns are stiffened by planes of bracing in both directions. On account of the large wind reaction from the stacks, the lateral stresses from this girder group are distributed through the entire floor by a system of floor diagonals to prevent any possibility of twisting the structure.

Each stack-base ring is held down to the main girders by twelve 2¾-in. anchor bolts (upset to 3¼ in.) extending down to the bottom flange of the girder. It was not thought safe to depend on these anchor bolts or on friction for taking the wind shear, and on this account the base ring is connected to the girder flange by twenty-four 1¼-in. turned bolts fitted into holes reamed through base ring and girder flanges to take the entire shear due to pushing the stack off its base by the force of the wind.

The stack, 16 ft. in diameter by 213 ft. 5 in. high above base ring, which is 60 ft. above the basement floor, consists of simple plating with a sectional firebrick lining. The top of the stack is capped with a sectional cast-iron ring. The lining is supported on shelves and provided with holding plates. Under each of the four-column stack groups the concrete mat of the foundation had to be made 5 ft. thick in order to distribute the load over the required number of piles. However, in spite of great stack load it was not thought necessary to reinforce the mat with steel. The stacks were designed for two-thirds of 50 lb. per sq.ft. diametral projection.

Plant Designed Without Outside Retainer

The general design of the Essex station was carried out by the engineering department of the Public Service Electric Co., headed by N. A. Carle, Chief Engineer. The steel design was largely handled by R. Von Fabrice, Chief Draftsman. The Lackawanna Bridge Co., Buffalo, N. Y., is furnishing and erecting the general steelwork. The turbine platforms, however, were let separately to the Pennsylvania Steel Co., for whom Alfred E. Norton is erecting the steel.

A remarkable fact is that throughout the entire planning and building of the Essex station no engineering or architectural assistance outside of the regular organization of the Public Service Electric Co. was employed. The difficult foundation conditions, the complex steel structure and the elaborate mechanical and electrical plant were planned out by the company's engineers after a study of all the recent large power stations in the country and utilization of the best ideas found there, together with the ideas developed by the designers themselves. As a result it is expected that a very low generating cost will be realized in addition to the low construction cost. Remarkably good architectural effects have also been secured, notably in the exterior of the switch house, where the material is common brick.

Steel-Reinforced Asphalt Roof

Reinforced-asphalt roofing will be put on a high-service reservoir to be built by Boston on Bellevue Hill. The reservoir is a steel tank 100 ft. in diameter by 44 ft. high, inclosed within a stone and concrete tower 108 ft. 2 in. inside diameter. The masonry shell is roofed over by concrete carried by a steel-beam framing supported on columns, and this concrete is to be covered by 1 in. of asphalt mastic, reinforced with wire mesh according to the following specifications:

The Neuchatel (Val de Travers) rock asphalt-mastic blocks shall be brought to the site of the work with the name of the above trade-mark stamped thereon. The mineral matter used shall be clean, sharp sand, good sharp grit, fine beach gravel or granite screenings, free from dirt and loam. The reinforcing material shall be No. 16 galvanized-wire fabric, 2-in. mesh. No artificial mastic or coal-tar products shall be used in the preparation of the materials or while laying and finishing the work.

The materials shall be mixed in the following proportions: Rock asphalt mastic, 50 to 55 parts by weight; asphalt fluxes, 10 to 12 parts by weight; mineral matter of stone, grit or granite screenings, 35 to 38 parts by weight. The asphalt blocks shall be broken and melted in regular asphalt-mastic kettles, together with the necessary asphalt fluxes, after which the mineral matter of sand, grit, beach gravel or granite screenings shall be added and thoroughly incorporated by stirring, and the whole mass shall be heated to the temperature of 250° to 300° F.

After sufficient cooking and stirring, the asphalt shall be carefully and uniformly spread in place over the foundation to a depth of ½ in. with wooden spatulas or floats and thoroughly worked or rolled until it is free from voids and an even surface is obtained. The asphalt mastic shall be laid in two layers each ½ in. in thickness with the galvanized-wire fabric embedded in the lower layer. The final surface of the asphalt mastic shall be dusted with either portland cement or white sand, and when laid it shall be perfectly water-tight.

Coleman du Pont Concrete Road

SYNOPSIS—A 20-mi. section nearing completion in Delaware. Extensive experiments with hydrated lime. Different kinds of reinforcement and methods of construction. Expansion joints placed when work is suspended for more than 15 min., and at irregular intervals to determine results. Power screed used on one section.

The first section of the Coleman du Pont Road in Delaware is being completed between Selbyville on the Delaware-Maryland line and Georgetown, Sussex County. This highway, generally of reinforced concrete, is financed by Gen. T. Coleman du Pont for the benefit of his state. The first section will cost more than $200,000 exclusive of the expense of securing a 200-ft. right-of-way. The entire project, 100 mi. long, running the length of the state, is estimated to cost $3,000,000. The present construction is divided into four contract sections, numbering from Selbyville north. A typical cross-section of the road is shown in Fig. 2. The maximum degree of curvature is 2°, and the limiting grade in Sussex County is 2%.

The general surface in Sussex County is mostly sand or clay or a mixture of these. When the roadbed is in drifting sand a small amount of clay is added to facilitate compacting the subgrade. The side slopes vary from 1½:1 in the firmer earth to 2:1 in the sandy soil and 4:1 on embankments where no guard rail is provided.

Embankments are built up in 8-in. layers, and each layer is rolled for its entire width. When possible, material for fill is secured within the slope lines, 20 ft. on each side of the center line. When this material is unsatisfactory for embankments, subgrade or shoulders, earth is obtained from borrow pits. If any black soil, sod or vegetable matter is encountered, it is removed before preparing the subgrade. In one instance, however, where the road traversed a swamp, it was decided that if the specifications were followed the cost would be excessive. The roots and brush that constituted the surface of the swamp floated on soft muck. Holes were cut in the surface of the swamp near the toe of the fill, and the muck was forced out through these holes by the weight of the fill; thus the fill was allowed to settle to firm foundation. This method saved about $1,500.

Drainage everywhere is very carefully planned. The average grade is only 1 ft. in 2,000, while in the most difficult section (from the standpoint of securing adequate drainage) the fall is 1 ft. in ¾ mi. Drainage maps were made showing the drainage survey to extend about ½ mi. on each side of the highway. Without these surveys it would have been impossible to secure a good drainage system.

FIG. 1. BOXES USED TO ACCURATELY MEASURE CONCRETE MATERIAL BEFORE ENTERING MIXER

The Concrete Wearing Surface

The concrete pavement is 14 ft. 7 in. deep in the center and 5 in. at the side. On each side of the concrete there is a 4-ft. shoulder of earth, making the available roadway 22 ft. wide. The pavement is reinforced throughout, with the exception of places where it was decided to leave it out for the sake of experiment. Expanded metal was used for reinforcement, although other kinds of reinforcement were tried. It is placed 2 in. from the top surface in all but a few cases.

Great stress was laid on the accuracy of measuring the concrete ingredients. Wooden measuring boxes of 2-cu.ft. capacity were used by all contractors, and this

method was held in great favor by all parties. The scheme is explained in some detail in *Engineering News* of Oct. 21, 1915, and is illustrated in Fig. 1. While it was very simple to measure the same amount of stone, sand and

Acting under this clause the engineer took occasion to vary the proportion of hydrate from zero to 10% of the cement content, with a view to observing the effect of varying quantities of hydrate on both the deposition of the

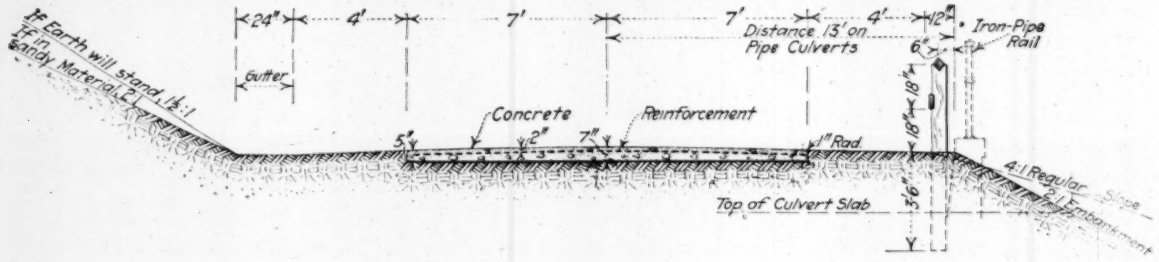


FIG. 2. TYPICAL CROSS-SECTION OF COLEMAN DU PONT ROAD

cement in each batch, it was not such a simple matter to keep the batches of the same consistency. This was in part due to the variation in the amount of water that could be introduced into the drums of the concrete mixers when the water regulators were kept in the same position. A device to obtain exactly the same amount of water in each batch of concrete has been made, and it is hoped it can be attached to all the mixers on the du Pont Road before construction starts in the spring. It will do away with the variation of the consistency of the batches and thus give a more uniform concrete.

The specification for concrete mix is as follows:

The proportions of ingredients shall be approximately 1 bag of portland cement, 2 cu.ft. of fine aggregate and $\frac{1}{10}$ cu.ft. of hydrate of lime. This may be varied slightly in order to obtain the densest mixture, if so approved by engineer.

concrete and its wear in a road surface. The experiment is not yet sufficiently advanced to warrant conclusive deductions.

Each batch of concrete consisted of 2 bags of cement, 4 cu.ft. of sand, 8 cu.ft. of stone and hydrate as stated. The time of mixing was 1½ min., at a minimum of 15 r.p.m. Before the concrete was deposited, the surface of the subgrade was sprinkled with water. There were seven concrete mixers in service in October, 1915. Each mixer averaged 300 lin.ft. of pavement per day.

After carefully considering many coarse aggregates that were available, it was decided to use traprock. This was obtained from quarries in the state and transported as near to the line of the road as possible. Narrow-gage construction railways conveyed the stone from the rail-

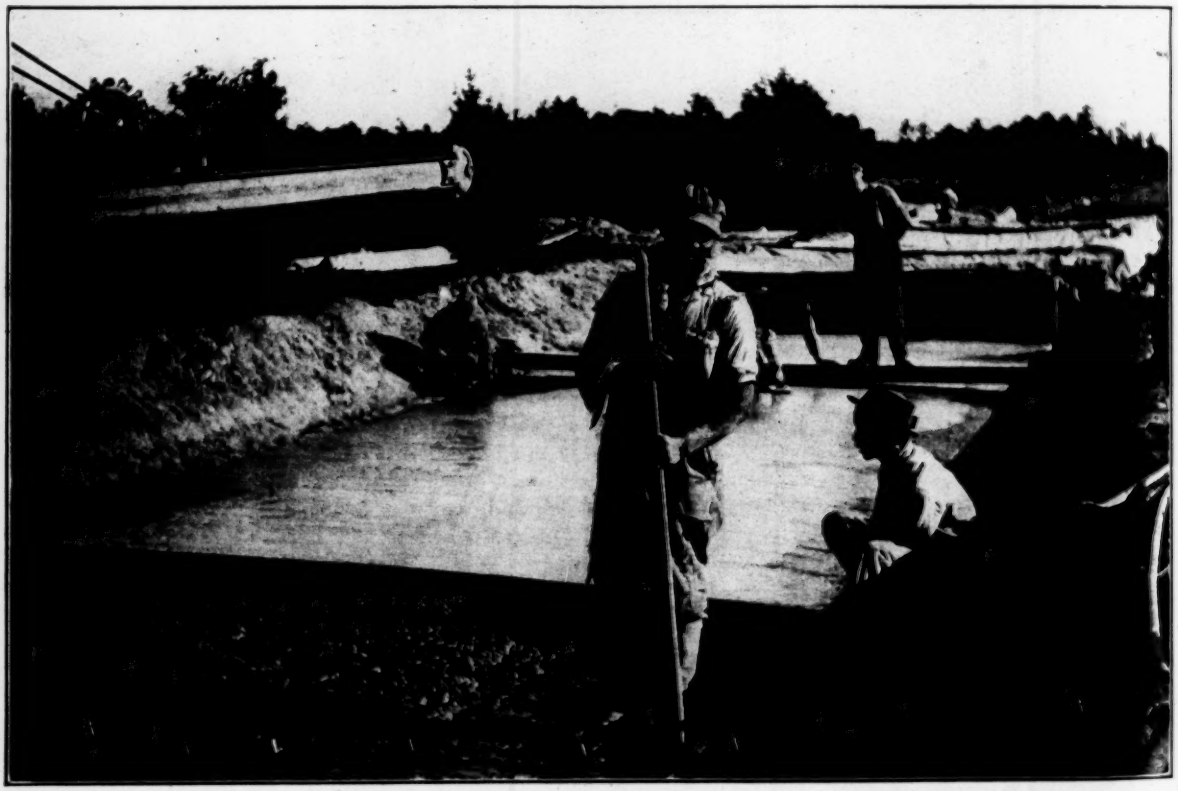


FIG. 3. SEVERAL ELEMENTS IN THE CONSTRUCTION OF THE COLEMAN DU PONT ROAD IN DELAWARE

Foreground—Imbedding the reinforcement. Center—Floating the finished concrete. Rear—Canvas-covered frames protecting fresh concrete from sun. Boom of mixer extends in foreground

was to the job, where it was dumped on the subgrade. The requirements of the traprock were that it should have a French coefficient of wear of at least 17, and should be the run of the crusher that would pass a 1½-in. ring and be retained on a ¼-in. screen. The sand used was dredged sand of exceptionally good grading, with the larger particles nearly ¼ in. in size. By using this sand with the graded stone the theoretical grading of the aggregates of the concrete was nearly perfect, and a very dense concrete resulted. A representative of the Bureau of Standards, who made a number of tests to determine the movement of the pavement, declared that the density of this concrete was greater than any he had previously drilled.

In view of the well-known diversity of opinion as regards the spacing of expansion joints, it was decided to place them on this road only when the mixer was shut down for 15 min. or longer. This resulted in some long slabs—in some cases reaching as great a length as 460 ft.

The specifications permitted the use of "any machine devised to finish pavement." On Section 1 a power screed, manufactured by the R. D. Baker Co., was employed successfully. On the other sections hand screeds made by bending 4x4x½-in. angle iron are used.

As soon as the concrete is finished, it is protected from the sun and wind by canvas-covered frames. As soon as possible after the concrete becomes hardened it is covered with 2 in. of earth and kept wet for 14 days. No traffic is allowed on the concrete pavement for at least 30 days.

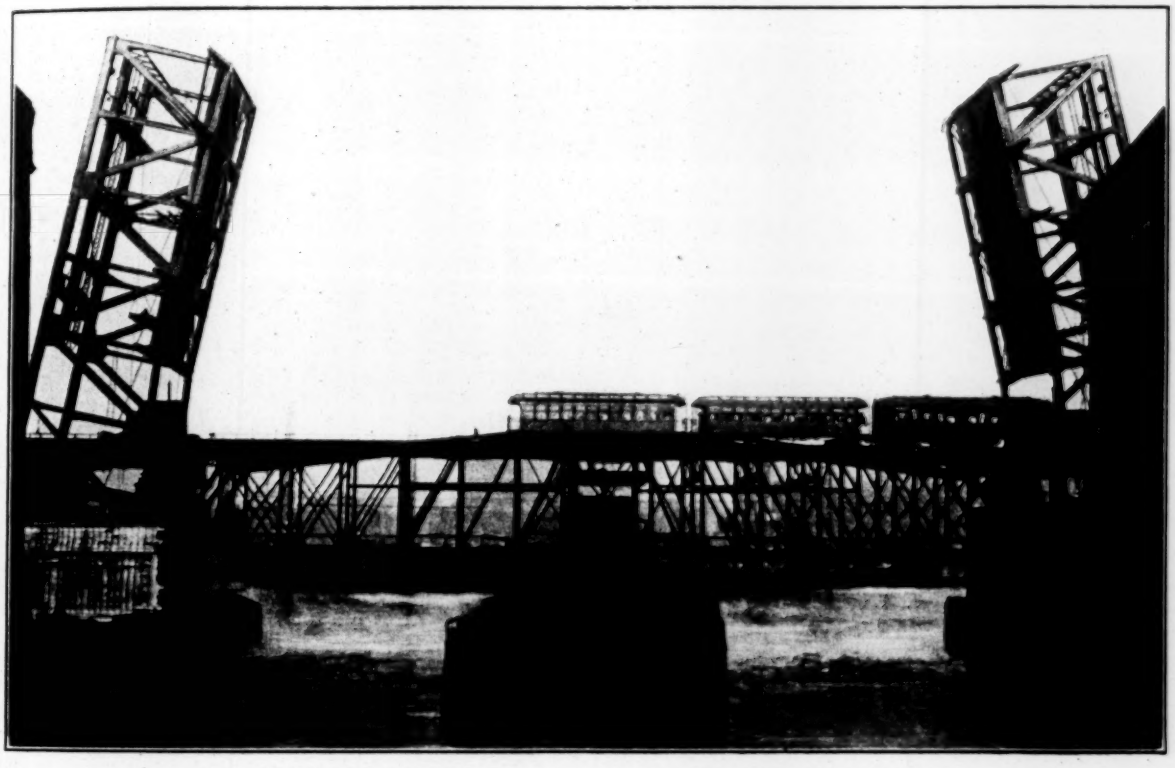
Each of the four contract sections is inspected by a resident engineer, who reports to the Chief Engineer, Charles Upham. Associated with Mr. Upham is C. D. Buck, Superintendent of Construction.

Renewing a Drawbridge Across the Chicago River

The new double-deck bascule bridge and the old center-pier double-deck swingbridge over the Chicago River at Lake St. are shown in the accompanying view, which represents the condition of work a month ago.

The old swingbridge is kept in service to carry the elevated-railway trains, but the roadway is closed to traffic. The bascule bridge was erected with its leaves in the raised position, the deck and bracing of one panel in each leaf being omitted to allow trains to pass through until the bridge is ready for operation. Then traffic will be stopped for a short time while the old bridge is removed and the floor system of the new structure is completed.

The bridge is of the trunnion bascule type, with a span of 245 ft. c. to c. of trunnions, giving a width of 209 ft. between the piers for a channel 195 ft. wide in the clear. The old bridge gives two channels only 65 ft. wide. The trusses are spaced 42 ft. c. to c. and are 30 ft. deep at the center. On the lower deck are a 38-ft. roadway (with car tracks) and two outside 16-ft. walks; on the upper deck is a double-track railway between the trusses.



OLD AND NEW DRAWBRIDGES OVER THE CHICAGO RIVER AT LAKE ST.

The bridge was designed and built under the direction of John Ericson, City Engineer, and Thomas G. Pihlfeldt, Engineer of Bridges and Harbor. The contractors were the Fitzsimons & Connell Dredge and Dock Co. for the substructure, the American Bridge Co. for the steelwork, and the Ketler-Elliott Erection Co. for the erection. The steel was stored on the dock shown beyond the center pier and was floated into place on lighters.

The bridge and its construction were described fully in *Engineering News*, Nov. 4 and 11, 1915.

A 2,223-Ft. Concrete-Arch Bridge Built on Reverse Curve

By A. M. Richter*

SYNOPSIS—A long bridge, curved in plan, with arches of two types; 211-ft. spans, with three arch ribs carrying crosswalls, and 134-ft. spans, with barrel arches. All are reinforced by steel truss ribs. Concrete was placed by a cableway of 2,038-ft. span, handling drop-bottom buckets. The entire construction is being done by the city on the day-labor system.

The construction of the Third Ave. reinforced-concrete arch bridge across the Mississippi River at Minneapolis, Minn., has involved unusual engineering difficulties and presents features of interest in both design and construction. The bridge is notable for its size, because it is curved in plan and because it is being built on the day-labor system, which has been employed for some time in the city engineering department. Some stages of the work under construction are shown in Fig. 1, and the general plan is shown in Fig. 2.

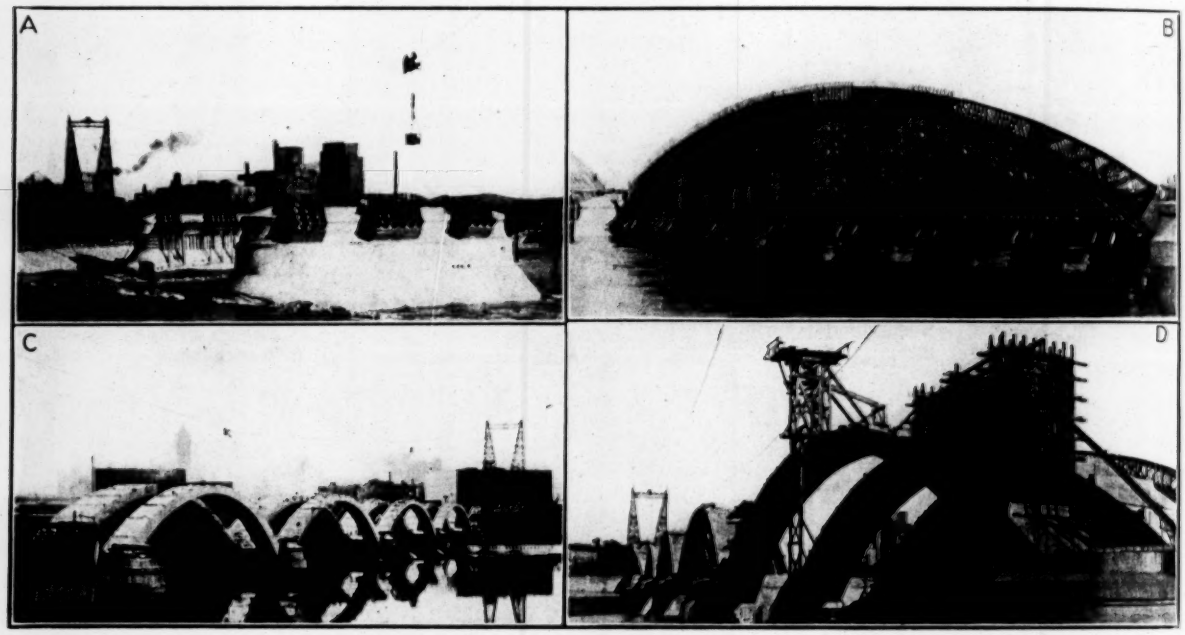


FIG. 1. CONSTRUCTION OF REINFORCED-CONCRETE ARCH BRIDGE OVER MISSISSIPPI RIVER AT THIRD AVE., MINNEAPOLIS, MINN.

A—Piers 4 and 5, showing ends of steel arch ribs, and tail tower of the cableway (Nov. 20, 1914). B—Falsework and steel reinforcing ribs for first 211-ft. arch (July 2, 1915). C—Arch ribs of the five 211-ft. spans; the third line of ribs (at the left) not built (Oct. 12, 1915). D—Fifth 211-ft. span, with two ribs completed and falsework and steel reinforcement in place for third rib. On the outer rib are forms for the cross walls, and a tower for the concreting chute

Troublesome Geological Conditions

Of special interest are the geological conditions which affect the foundation work and which account for the curved line of the bridge. The geological formation of the river bottom at the bridge site consists of a limestone bed about 15 ft. thick, which is practically bare in the west channel and covered only by a few feet of silt and sand in the east channel. The limestone ledge rests on the St. Peter sandstone, which is about 600 ft. in depth. This sandstone is readily excavated with picks and is easily eroded by the action of water, especially when under a head. The limestone extends upstream about 500 ft. from the bridge and downstream about 700 ft. to the crest of St. Anthony Falls.

In the early construction of works to utilize the power from St. Anthony Falls a peculiar advantage was afforded by the facility with which tunnels could be excavated in the soft sandstone. The water was led from the mill pond in a canal above the limestone, and the tunnels served as tailraces. In 1869, however, one of these tunnels had reached a point near the foot of Nicollet Island (2,000 ft. from the point of beginning), when water poured in from a break in the overlying bed of limestone. The project had to be abandoned, and the United States Government made extensive repairs to close the break in order to insure continuance of the water-power and restore the original conditions as far as possible. Another break occurred in 1876. The locations of these breaks in the river bed and their relation to the bridge projects are shown on the plan.

With the growth of the city, there has been strong demand for a bridge in the neighborhood of Third Ave. South. It was desired that this should be of handsome appearance, and a concrete arch structure was considered

*"Minneapolis Journal," Minneapolis, Minn.

the best to meet the requirements of the situation. In 1912 the City Council commissioned the Concrete-Steel Engineering Co., of New York, to prepare designs for a reinforced-concrete arch bridge between Third Ave. South and First Ave. Southeast. The location is indicated by a dotted line on the plan.

The design was subjected to a public hearing before the engineers of the United States War Department in 1913. The water-power companies had not favored any bridge project and announced that, if necessary, they would resort to litigation to oppose any work threatening danger to the falls.

Shortly after affairs had reached this stage, Frederick W. Cappelen was elected city engineer. While bridge engineer for the city in previous years he had built six bridges across the Mississippi River and acquired a thorough knowledge of river conditions. He refused to approve the proposed location. The City Council then rejected the plans and instructed him to design a steel bridge that could be constructed without endangering the falls or affecting water-power rights.

His proposed location is shown on the plan, and his design included one span of 134 ft. to clear entirely the area of the limestone breaks. The trusses were to be of the parabolic through-truss type. In the face of objections (based mainly on æsthetic considerations) the City Council approved the plans and directed the engineer to proceed with construction.

At this time, however, Mr. Cappelen conceived the idea that by adopting a curved location for the line of the bridge, a design satisfactory to all parties might be worked out. On investigation it was found that at one point the limestone break could be cleared by a concrete arch of 211-ft. clear span. A revised

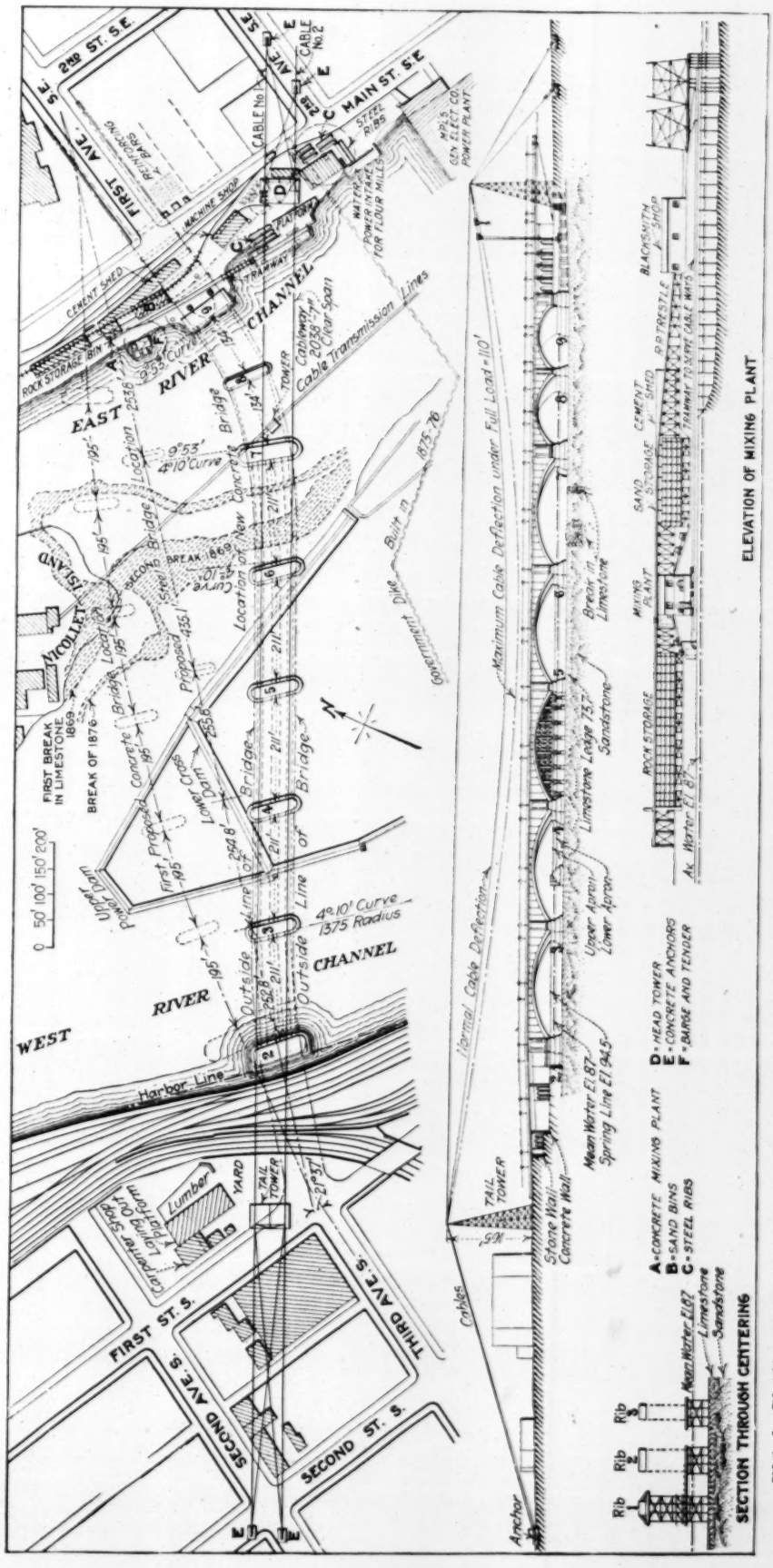


FIG. 2. PLAN AND ELEVATION OF THE THIRD AVE. REINFORCED-CONCRETE ARCH BRIDGE OVER THE MISSISSIPPI RIVER AT MINNEAPOLIS, MINN.

plan for the desired ornamental structure was then prepared. This proved satisfactory to all parties and was finally adopted.

The bridge is 2,223 ft. long and consists of seven main river spans. It has a 54-ft. roadway (with double-track street railway) and two 12-ft. sidewalks. The loading provides for two 40-ton cars and 100 lb. per sq.ft. uniform load. The floor system is designed to carry a 24-ton road roller on a space of 12x18½ ft. The center line starts at the intersection of Third Ave. South and First St. at an angle of 21° 39', and is on a tangent for 151 ft. to a 4° curve 330.2 ft. long. A tangent 719 ft. long continues to a curve consisting of a 4° compounded into a 10° curve in a distance of 526.83 ft., bringing the center line of the bridge to that of First Ave. Southeast. The

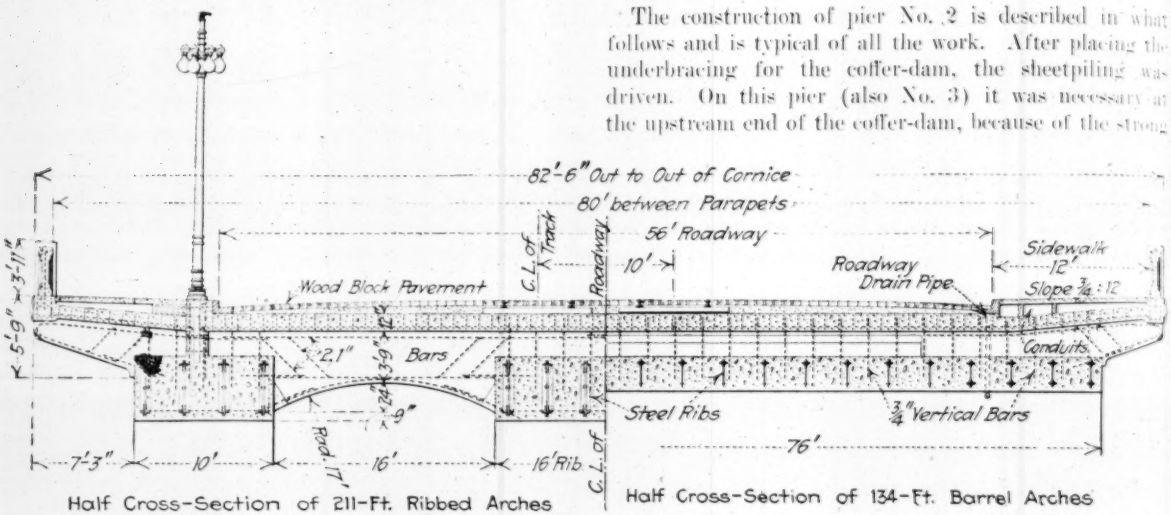


FIG. 3. CROSS-SECTION OF THE CONCRETE ARCH BRIDGE AT THIRD AVE., MINNEAPOLIS, MINN.

bridge is level, with a grade of 0.9% on the east approach and 3.1% on the west approach.

There are five 211-ft. spans with piers 20 ft. wide at springing line and two 134-ft. spans with an intermediate pier 13.79 ft. wide. The two end, or abutment, piers and the pier between the 211-ft. and 134-ft. spans are 30 ft. wide. The approaches are steel girder spans on thin piers. All the river piers are skew to the center line. The 211-ft. spans are on the tangent of the 4° curves and the 134-ft. spans are on the 10° curves.

Each of the 211-ft. spans is carried by three arched ribs of 36-ft. rise, as shown in the cross-section, Fig. 3. The outside ribs are 12 ft. wide in the two end spans and 10 ft. in the intermediate spans, while all center ribs are 16 ft. wide. The reinforcing is of the Melan type, consisting of ribs of 4x4x½-in. angles laced with 3x3x$\frac{5}{16}$-in. angles (at haunches) and 2½x⅜-in. bars. There are six of these ribs in each 16-ft. arch rib, five in the 12-ft. and four in the 10-ft. ribs. They are braced every 30 ft. with 3x3x$\frac{5}{16}$-in. angles.

The two 134-ft. spans over the east channel are full-barrel arches (Fig. 3) with Melan ribs of 3x3x$\frac{5}{16}$-in. angles laced with 2½x¼-in. bars. These are spaced 34 in. c. to c. and cross-braced every 30 ft. with 3x3x⅜-in. angles.

Carrying the floor system from the ribs are transverse walls and girders supporting the floor slab and brackets supporting the sidewalk slabs and parapet-wall beam. These are shown in Figs. 3 and 4.

The piers were constructed in open coffer-dams of Lackawanna steel sheeting, some of the sheeting being used three and four times. The coffer-dam dimensions were as follows: Pier No. 2, 46x121 ft.; Nos. 3 to 6, inclusive, 37x113 ft.; No. 8, 24x101.5 ft.; No. 7 (between the larger and smaller arches), 46x131 ft.; east abutment pier, 42x110 ft.

Practically no silt was found on top of the ledge at piers Nos. 2, 4 and 5, but there were from 6 to 12 in. at No. 3, 5 ft. at the downstream and 7 ft. at the upstream ends of No. 6, 9 and 10 ft. at No. 7, 8 ft. originally and scouring out to 3 ft. minimum at No. 8 and 8 ft. at pier No. 9. The depth of water was 16 ft. at piers Nos. 7, 8 and 9, 12 ft. at Nos. 2, 3, 6 and 12 and 5 ft. at Nos. 4 and 5.

The construction of pier No. 2 is described in what follows and is typical of all the work. After placing the underbracing for the coffer-dam, the sheetpiling was driven. On this pier (also No. 3) it was necessary at the upstream end of the coffer-dam, because of the strong current, to anchor 15-in. I-beam sills to the rock bottom with 2-in. rods to hold the lower end of the sheeting in place. This is shown in Fig. 5.

The steel sheeting was very tight and was made entirely water-tight by a filling of coal dust and fine cinders. Sandbags were placed around the bottom of the sheeting and then pumping was started. If water came in through fissures in the rock, pumping was stopped and the bottom course of concrete, 5 to 6 ft. thick, was placed under water. After this had set, the coffer-dam was pumped out and the remainder of the work placed dry. This was done on piers Nos. 2, 6 and 8 and partly on No. 3. Excavating for piers Nos. 6 and 8 was done entirely with orange-peel buckets. The rock in these coffer-dams was cleaned by divers with water jets. The other foundations were placed dry, but always in sections, and generally four sections to each coffer-dam.

The silt on top of the bedrock was full of old water-soaked logs that caused trouble in the excavation. Two slight breaks occurred in coffer-dam No. 3. Both occurred during night shifts, and might have been prevented had there been an intimation of a break during the day.

Construction of the Piers

After the footings were completed, the piers were concreted in forms which were used over and over again (Fig. 6). The first section above the footing was carried above water level, generally leaving a center space considerably below water level to receive the ends of the

steel ribs. Finally this part of the pier containing the ribs was cast in one continuous pouring. This amounted to about 1,000 yd. on piers Nos. 3, 4, 5 and 6, 1,266 yd. on Nos. 7 and 9 and 750 yd. on pier No. 8. The record run was 1,000 yd. in 22 hr.

Pier construction was carried on through the winter except when the temperature was below zero, special precautions being taken against freezing. The forms were entirely inclosed with tarpaulins (Fig. 6) and heated with coke stoves. The sand and rock bins were supplied with heaters, and when necessary the cableway buckets for handling concrete were dipped in hot-water tanks on shore. Careful records were kept of temperatures of materials at deposit points. As a result, there was no trouble from frozen concrete.

Concrete deposited under water was a 1:2:4 mixture. All other concrete in the piers was 1:3:6. It was mixed in batches of about 1 yd. (24 ft. of stone, 12 of sand and 4 sacks of cement), two batches to each bucket. The stone was mostly traprock from Dresser Junction, Wis., crushed to a maximum size of 3½ in. The sand was a Minnesota product. A timber tower about 50 ft. high, with crib bottom for anchorage, was placed adjacent to the pier, standing on the river bottom. The tower had a hopper near the top, with a chute to the forms. The cableway buckets delivered concrete to the hopper, where a man regulated the discharge to the chute. The towers were picked up bodily by the cableway and moved from place to place.

The first coffer-dam (pier No. 2) was begun Aug. 2, 1914, and the pier work was finished June 28, 1915. The river froze solid early in December, and the ice left the west channel in March and the east channel in April. Between the dates mentioned, 27,000 yd. of concrete was laid in pier construction.

Falsework for the Arch Spans

Falsework for the arches was begun Apr. 19, after the ice was out. One set of falsework was designed for the center ribs for the five 211-ft. spans. It was made in seven sections per span, supported by 24-in. 70-lb. I-

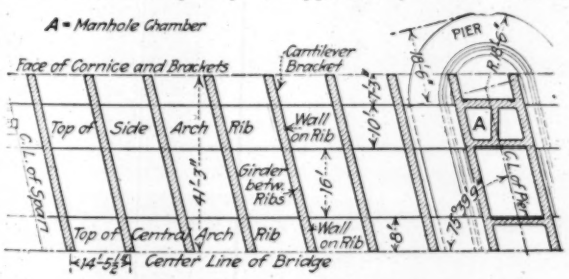


FIG. 4. PART PLAN OF 211-FT. ARCH SPAN
Showing the arch ribs and cross walls

beams, 28 ft. long on the inside sections and 26 ft. on the two end sections. The I-beams were supported on cribs made of eight 10x10-in. posts braced and capped and having open plank bottoms for loading with sandbags to sink them into place. These cribs were placed 28 ft. 11 in. c. to c. (Fig. 1).

The falsework to carry the ribs was of 8x8-in. posts braced with 2x10-in. planks. The bents were capped and furnished with wedges under caps supporting the joists which carried the lagging and the framework for the rib. The lagging and side forms were of 1-in. tongued-and-grooved plank, the forms being supported by 4x4-in. posts and 4x6-in. longitudinal timbers.

The I-beams rested on 8-in. blocking, so that when the centering had been used for one rib, the entire falsework could be moved into place for the next rib by replacing the blocking with rollers. This falsework was placed in position for the upstream rib first and cribs were placed also for the center ribs at the same time. Trouble was experienced in placing them because of high water and

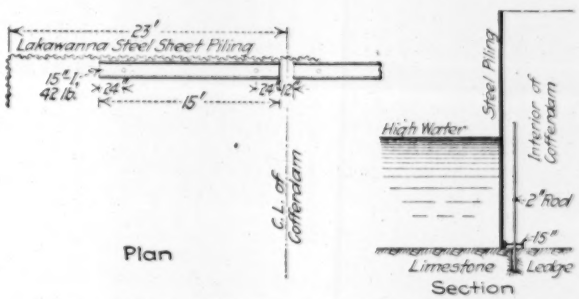


FIG. 5. SUPPORT FOR BOTTOM OF STEEL SHEETING FOR COFFER-DAM

because several cribs were located on the roll dams and aprons. The use of the 24-in. I-beams of 26- and 28-ft. length was decided upon in order to utilize the material for the floor spans of the approaches.

Concreting the Arches of the Bridge

The first arch rib, between piers Nos. 2 and 3, was poured July 8, 1915; 240 yd. of concrete was handled on one cableway in 11 hr. over the center section of the rib. The steel ribs were then riveted at the haunches during the next night and the two end sections poured simultaneously the following day, both cableways being used for 9 hr. to handle 340 yd. of concrete. The last upstream rib was poured Aug. 5. Two days later the centering was struck under the first rib and the falsework rolled over by means of a crab on pier No. 2, with block and tackle hitched to each section. The whole centering for one span was thus moved in one day.

On Aug. 16 the centering for the next span was moved into position and on Aug. 19 and 21 the center rib was poured—768 yd. in 24 hr. A record run was made on the center rib finished Aug. 28, when 450 yd. was poured in 7½ hr. with both cableways, or one bucket every 2 min., at a distance of 1,600 ft. from the mixers. The concrete for the ribs is a 1:2:4 mix, using ¼- to 1½-in. stone.

The program for the rest of the work provided for pouring one rib a week until all 15 were completed. The cribs for the upstream ribs were moved and used again for the third ribs on the downstream side. The centering for the last rib was moved over into place in 2 hr. 40 min.

In October, 1915, the timber for the first three 211-ft. spans was moved over to the 134-ft. spans in order to finish the arches before cold weather sets in. The transverse walls are being put in, and only the floor proper will remain to be put in next spring. It is expected that the new bridge will be opened to travel not later than June 1, 1916.

The alignment of the bridge and skew of the piers necessitated an elaborate system of location. The triangulation had for its base the center tangent line of the bridge.

A series of large triangles was laid out on either side of this base line, regard being given to prominent points as targets for the apices of the triangles.

A secondary triangulation system was calculated, with proper attention to balancing errors for the location of the instrument platforms. Upon this the intersection points of pier, transverse center lines and base line of platforms were accurately established. These intersections were established with ordinary transits reading to 30 sec. Seconds were interpolated on the platforms by means of thread intersections; the minute next greater and that next smaller to the actual triangle calculated to the nearest second were read by the instrument man and recorded on the platform. Actual measurements show a maximum error of ¼ in. in 211 ft.

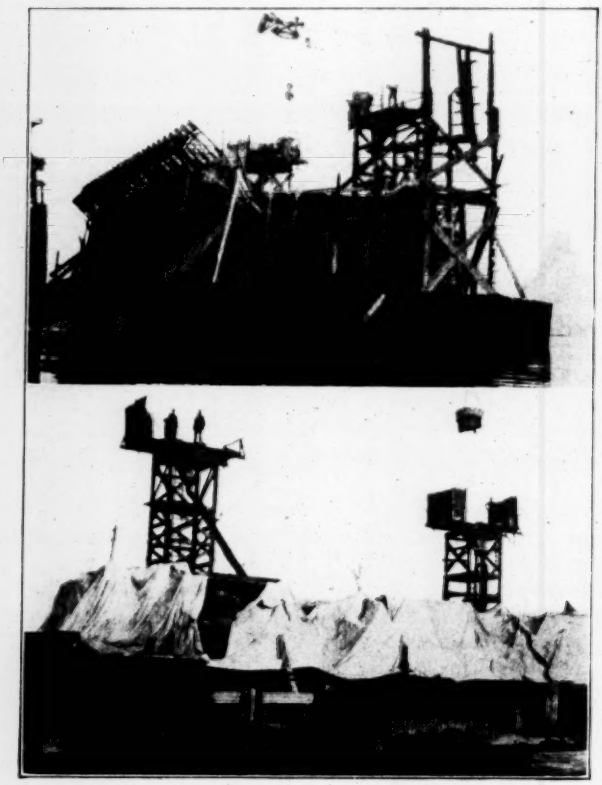


FIG. 6. CONCRETING THE PIERS FOR THE THIRD AVE. BRIDGE

Upper View—Work at pier No. 7 in April, 1915. Lower View—Concreting pier No. 3 during freezing weather in December, 1914

Handling Material by Cableways

The river conditions, as well as railway operations at the site of the bridge, led to the use of a Lidgerwood double cableway to handle the work. This has two 2½-in. steel main cables and is operated by two 75-hp. engines and a 150-hp. tubular boiler. The cables have a working span of 2,020 ft., giving a capacity of 6 tons each at a speed of 1,200 ft. per min. constant work and 10 tons for occasional demand. Fig. 2 shows the location of the cableway and the bridge.

The towers had to be 165 ft. high to insure clearance. The location of the anchors was a difficult problem, which was finally solved by utilizing space in the streets in such a way as to interfere but little with traffic. The towers are 39x76½ ft. at the base. They are built of Douglas-fir timbers, 12x14 to 10x10 in., and capped with oak headblocks, 20x20 in. and 7 ft. long.

The anchors of the head tower (east side) contain 122 yd. of concrete each and weigh 237 tons. They are 27x12½x10 ft. and entirely under the ground. The tail-tower anchors are 22x15x10 ft. each, containing 120 cu.yd. and weighing 230 tons. They are half buried in the street. Each tower is guyed by two 1½-in. lines. Difficulty was met in carrying one of the cable lines over a seven-story building about 100 ft. from the tail tower and in supporting the same line to afford clearance on the street at the anchor, as indicated in Fig. 2. High-water conditions, inability to get near the dam in rowboats and the necessity of precaution against dropping the heavy cable and cutting a power-transmission line, as well as danger of interference with trains on several tracks, were among the complications involved. The task was finally accomplished by using a rope line and then a 1⅛-in. messenger cable to trolley across the 2½-in. cables.

The cableways are located to serve all piers except No. 9, the abutment pier on the east side. This is near the mixing plant and was served direct with towers, elevators and derricks.

The towers were framed on the ground and then erected. The framing began Apr. 1, 1914, and was completed Aug. 1. It was done on the day-labor system, with a crew of 7 ironworkers, 20 carpenters and 15 laborers. The erection cost is estimated at $5,000 and the machinery and special equipment cost approximately $21,000.

Concrete-Mixing and Handling Plant

A difficult part of the work was that of arranging the working plant. There was no room except on Main St. (on the east side), and here some travel had to be provided for. The Great Northern R.R. maintains two industrial tracks on the street and owns the land to the river, which is leased to various concerns. The railway company, however, cancelled the leases and made it possible to establish the mixing plant at that point. Concrete, steel and machinery were located on the east side and lumber on the west side. The layout of the construction plant and supply yards is shown in Fig. 2.

The concrete-mixing plant has a capacity of 400 yd. in 8 hr. There is a 2,000-yd. rock-storage bin 125 ft. long and an 800-yd. sand bin 74 ft. long. The bins are 27½ ft. wide and 12 ft. deep, and are provided with boilers for heating. The material track reaches the top of the bins by a trestle 460 ft. long, with a grade of 4%. Stone and sand are delivered through bottom openings into cars of 24-cu.ft. capacity, which serve the mixing platform by a cable incline operated by hoisting engines. The cement shed, 20x200 ft., of 5,000 bbl. capacity, is served by a sidetrack.

There are two cube-type mixers, each of 1-yd. capacity. They are equipped with steam lines, and in freezing weather the water is run through a reheater. The water tanks are fitted with gages for measuring the supply to each batch. The sand and stone are dumped into the hopper at one level and the cement from a higher level, and the entire charge then spouted into the mixer.

The concrete is discharged into 2-yd. drop-bottom buckets. These are circular in shape, with conical bottoms, and have legs so that they stand upright on flat cars. These cars are hauled between the mixer plant and

the cableway on a double-track cable tramway operated by American reversible hoisting engines.

At the city workhouse prisoners are making the ornamental concrete railing shown in Fig. 7. The concrete is made with mica-spar crystals (from Crown Point, N. Y.) and is cast in steel molds to obtain a smooth finish and polish. The cement workers' union protested against this plan, but finally withdrew its objections. This railing is estimated to cost $20,000.

Other Construction Plant

Space and trackage were very limited on the west side, but three lots at the street level were loaned by the Rock Island Lines. Here was erected a 48x135-ft. platform for framing timber and laying out the centering; also a small planing and ripping mill, tool house, men's house and engineers' field office. The timber is piled high on account of limited space. It is handled by a derrick with a 45-ft. boom and a 45-ft. mast.

The machine shop, 30x60 ft., is also on the east side. It has a blacksmith forge, bolt-threading machine, emery

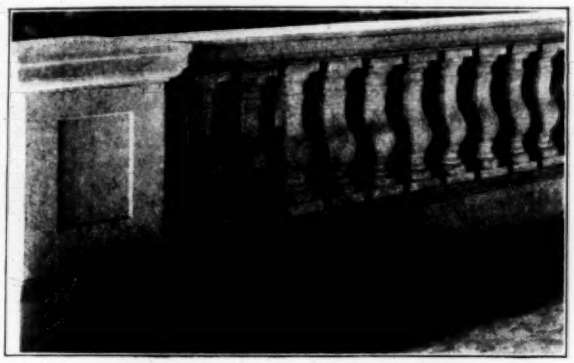


FIG. 7. CONCRETE RAILING FOR THE THIRD AVE. BRIDGE

grinder, miscellaneous tools and one 4-ton and two 2-ton chain blocks. A track runs under the shop from the cableway tower, so that equipment may be run in for repairs. Two movable derricks in the same location have 65-ft. masts and 50-ft. booms. Completing the east-side layout are the steel storage yards, served by a derrick with 65-ft. mast and 75-ft. boom. Each Melan rib is in its own common pile, some running 35 sections high. The reinforcing steel and bar iron are in separate places bundled and labeled for length and location.

Electric motors are used in the mill and machine shop and for operating the concrete mixers. Electric drills are employed in timber framing. All pumping was done with electric belt-driven centrifugal pumps. Compressed air was used for riveting.

The total cost was estimated at $650,000. The bridge will require 53,000 cu.yd. of concrete, 963 tons of structural steel for the arch ribs, 800 tons of reinforcing bars for piers and 1,500,000 ft. of lumber for centering. The prices for materials delivered at the site were as follows: Crushed traprock, $1.45 per cu.yd.; washed sand, 75c.; cement, $1.20 per bbl.; structural steel (including erection bolts and nuts), $53.50 per ton; reinforcing bars, $1.429 per 100 lb.; Lackawanna 7-in. steel sheetpiling, $1.63¾ per 100 lb.; coal (lump), $4.15 to $4.25 per ton; electric current for light and power, 2.9c. per kw.-hr.

The wages paid by the city (for an 8-hr. day) were as follows: Foremen, $4.50 to $6; ironworkers, $5; carpenters, hoisting enginemen and electricians, $4; handymen, $2.65; laborers, $2.50; water boys, $1.40; teams, $5.

The location was determined and the general design made by Frederick W. Cappelen, City Engineer (with whose aid and approval these notes were prepared). All construction was done under his direct supervision. He also designed the methods of construction, the working plant, falsework, etc. The assistant engineers, all employed in the city engineering department, were as follows: K. Oustad, Bridge Engineer; William Elsberg, Superintendent of Construction; and John E. Lawton, Junior Engineer.

The construction foremen were N. Linstrom, for the forms, concreting and falsework, and J. F. McAuley, for the mechanical equipment. The Concrete-Steel Engineering Co. furnished the detail plans under its original commission of 1912. Its resident engineer on the work was Charles F. Borneteld.

Large Water-Works Figures

Municipal ownership of water-works prevails in 155 of the 204 cities of the United States having an estimated population of 30,000 or more in 1915, according to a statement just issued by the United States Bureau of the Census. The total estimated value of these municipally owned works is $1,071,000,000. The distribution systems in the 155 cities comprise a total of 36,936 mi. of mains, 330,593 fire hydrants and 1,787,448 meters. The total water consumption in the 155 cities for the year covered by the report was 1,326,028,000,000 gal., supplied to 26,200,000 people, giving an average daily per capita consumption of 139 gal. On the range of water consumption and the effect of meters, the Bureau of the Census says:

> The greatest daily consumption of water per inhabitant, 430 gal., is reported for Tacoma, Wash., and the smallest, 34 gal., for Woonsocket, R. I. In the former city 8% of the water is metered and in the latter 98%. The tendency of meters to curtail greatly the use of water is strikingly shown by a comparison of the figures for the 26 cities in which the entire water-supply is metered with those for the 26 cities in which not more than 25% is metered. In the former group the average daily consumption per inhabitant ranges from 42 gal. in Brockton, Mass., to 179 gal. in Columbia, S. C., and in only 7 cities does it exceed 100 gal. In the latter group it varies from 43 gal. in Savannah, Ga., to 430 gal. in Tacoma, Wash., and in only 3 cities does it fall below 100 gal.

The number of cities with water-purification plants is not given. Instead the statement is made that in the 155 cities of over 30,000 population having municipal ownership there are in operation a total of 87 settling reservoirs, in which are treated 958,600,000 gal. a day; 54 coagulation plants, treating 492,100,000 gal.; 527 sand filters, treating 598,700,000 gal.; and 427 mechanical filters with a daily output of 468,200,000 gal. The surprising total of 1,972,900,000 gal. of water per day is treated by some disinfection process.

The range of cost of water treatment per 1,000,000 gal. is reported as from 4c. per 1,000,000 gal. in Chicago, Ill., for disinfection, to $17.46 in Columbus, Ohio, for "mechanical filtration and chemical sterilization."

More detailed information regarding both municipally owned water-works and various other works and operations of the larger cities of the United States will be published later on under the title "General Statistics of Cities, 1915," compiled under the direction of Starke M. Grogan, Chief Statistician for Statistics of Cities. Sam L. Rogers is Director of the Bureau of the Census.

Field and Office

Sinking a Cylinder Pier by Open Dredging

The south shore pier of the continuous-span channel crossing of the new Chesapeake & Ohio Northern Ry. bridge over the Ohio, at Sciotoville, Ohio, was put down by open dredging through wells—the only foundation on this work put down by other than ordinary methods. The sinking went on quite according to expectations and encountered no difficulties.

The most successful feature of the work was that, although sunk in a sharply sloping bank at the edge of the river, the pier was landed almost precisely in correct position; this is to be credited to the well-judged allowance for downhill shift which was made by the contractor at the start of the sinking.

The Dravo Contracting Co., of Pittsburgh, Penn., did the work under the direction of Gustav Lindenthal, Consulting Engineer, who designed the bridge and foundations.

The south shore pier has a base 70x24 ft., with parallel sides and semicircular ends. Four wells, 7 ft. 3 in. in diameter, spaced 14 ft. 8 in. c. to c., were cored in the concrete for doing the dredging. The lower ends of the wells flare outward sharply for a height of 6 ft.

The pier is located some 30 ft. back from the water's edge, somewhat below the middle of the sloping bank. The bank is mainly clay, although farther back the soil is sand practically from the surface down. Rock was expected to be found within 10 ft. below low-water level, the latter being El. 475. It was actually encountered at El. 462.5.

The shoe of the pier was set June 22, 1915, on an excavated bench at El. 487. Forms for the chamber, built on the shoe, were then concreted to a level 6 ft. above the cutting edge, which formed the chamber and roof. Two further 6-ft. lifts were concreted, the pier being allowed to settle during this time with a small amount of hand excavation inside to level it up. On July 17 excavation through the shaft by orangepeel was begun.

On account of the slope of the bank the contractor set the shoe 7½ in. landward of true position in order to allow for the riverward shift due to the greater earth pressure on the land side.

Shortly after excavation started, masses of old leaves and much clay were encountered on the river side of the pier. The excavation through this material had to be done by hand, the water being held by pumping. When clear soil was reached the chamber was allowed to flood, and thereafter the entire sinking proceeded by orangepeel buckets through the wells to within 18 in. of rock. Two buckets were used, one handled by a stiff-leg derrick set on the bank above the pier and one handled by a derrick boat working close against the bank.

Sinking went on at the rate of ½ to 2 ft. a day in the early stages. After the cutting was through the clay it was in fine sand, and here it made 2 to 3 ft. in 10 hr., the cutting edge being continually buried about 18 in.

Practically all seepage into the pier chamber came from the inshore side and end, there being numerous springs in the bank. Excavated material on the river bank was probably a factor in holding down the inflow from the river.

On July 28 the final 9-ft. lift of concrete was poured, and with this the pier went down to rock, bringing up Aug. 7. The rock was overlain by a layer of gravel on the downstream half of the pier, ranging from 2 to 3 in. at the middle line to 2 ft. at the downstream end. The pier brought up on this gravel. The chamber was then pumped out and the remaining excavation and a 2-ft. cut into the rock to get good bearing were done by hand.

TOP OF CHAMBER, KENTUCKY SHORE PIER OF SCIOTOVILLE BRIDGE

In this work a single No. 4 Emerson pump was sufficient to keep the chamber clear of water. As the shoe was lowered down during the rock excavation, empty cement sacks were packed under, which rolled up behind the cutting edge and shut off most of the water.

In preparing to concrete the chamber on Aug. 18, the bottom (El. 459.3) having reached sound rock, a drain of short lengths of 3-in. pipe covered with concrete in bags was laid around the cutting edge and carried to a sump under one of the shafts. Two 2-in. siphons not worked to their full capacity took the water from this sump. Two grout pipes down each of the four shafts leading to the cutting-edge drain were put in, and then the working chamber was sealed and the shafts filled. After this, grout was forced down one of the grout pipes, using compressed air as the forcing pressure, until it showed at all other pipes.

The pier as finally landed is within 1 in. of true position, departing a little toward the river, and stands practically plumb, is correct in alignment and at a true right angle to the bridge center line. Thus its total lateral shift was 8½ in. from shore toward river.

The total working period was 62 days. Of this period 19 days of 10 hr. were used in excavation.

The above data were supplied largely by R. T. Robinson, resident engineer. He gives credit for the success of the sinking operations to J. Smith Miller, the contractor's superintendent in charge of the work.

Equipment of Concreting Trains

Two concreting trains, each consisting of a mixer car, four to seven stone cars and two to four cars of sand, have been designed and fitted up by the engineers of the Chicago & Western Indiana R.R. for placing 30,000 cu.yd. of concrete in track-elevation work this season. The entire work involves the elevation of 45 mi. of main and yard tracks in Chicago and necessitates the building of retaining walls and abutments, sand fills, steel bridges and 15 subways. There will be grade separation between passenger and freight traffic. The railway is doing the work by its own forces.

The mixer car is placed in the middle of the train, with the cars of stone at one end, the sand at the other and the cement car behind the sand. This arrangement minimizes the distance that materials must be wheeled, calling for a smaller mixer gang. Placing the mixer car at the head of the train in similar work was described in *Engineering News* of Aug. 12, 1915.

A feature of the present work is the use of cement in bulk.

The mixer car is a 35-ft. flat-car, equipped with a $\frac{2}{3}$-yd. Smith nontilting mixer, 10-hp. vertical engine, 20-hp. vertical boiler, 700-gal. storage tank and 60-gal. feed tank for the mixer. The machinery is housed, the roof of the car being higher at the discharging hopper than at the ends of the car, thus forming an easy incline from the runways on top of the gondola cars to the charging hopper above the mixer. The mixer is located about 8 ft. from one end of the car and faces the end (Fig. 2). It discharges the concrete into a swiveling chute, which may be swung to discharge from the end or from either side of the car. This arrangement of pouring at different angles, or from either end of the train, eliminates the necessity of turning the mixer car (as required with other types) and makes a considerable saving in work-train service.

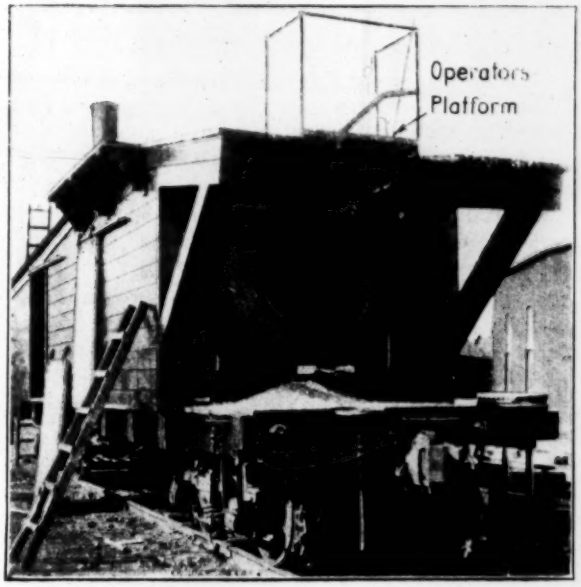


FIG. 2. HEAD OF CONCRETE-MIXER CAR AS USED ON CHICAGO & WESTERN INDIANA R.R.

The chute has intermediate openings, so that concrete can be discharged at different points. A man on top of the car regulates the charging of the mixer, the supply of water and the dumping of the concrete. Usually the mixer trains stand on trestles and the concrete is spouted to the forms for the abutments and piers beneath, as shown in Fig. 1. For the upper part of the piers it has been necessary to elevate the concrete, a crane and bucket being used to place the concrete in the forms.

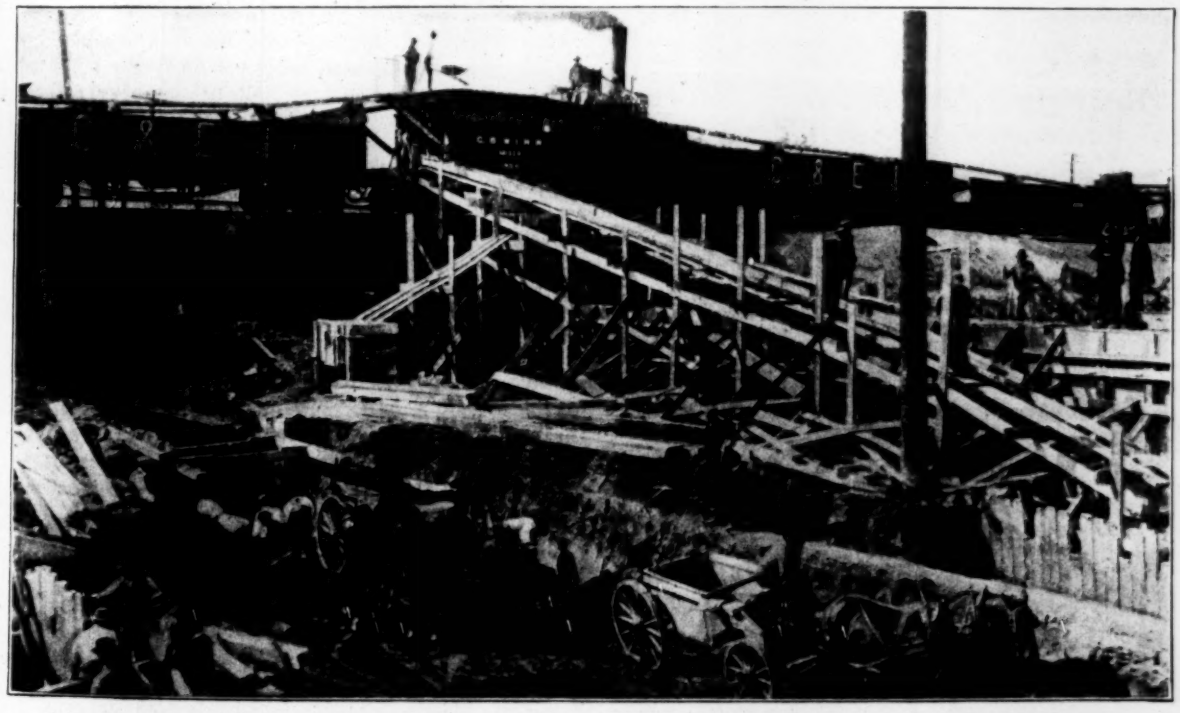


FIG. 1. CONCRETING TRAIN PLACING THE FOUNDATIONS FOR BRIDGE ABUTMENTS AND RETAINING WALLS; CHICAGO & WESTERN INDIANA R.R.

The mixer car is designed to carry a tower and hoisting engine if required, but as yet this has not been found necessary. A valuable feature of the car is a powerful winch head for a cable, which is anchored ahead. This enables the mixer car to move the train along as the work progresses, thus dispensing with the constant attendance of locomotive and crew.

Each train is placing at the rate of from 20 to 30 cu.yd. per hour, with a monthly total for both trains of 11,000 yd. of concrete. The mixer trains are switched during the night by a regular night crew. Part of the mixer gang is called at 6 a.m., so as to have all chutes and runways placed before 7 a.m., when the full concreting gang starts work.

The work is under the direction of E. H. Lee, Vice-President and Chief Engineer of the Chicago & Western Indiana R.R.; F. E. Morrow, Assistant Chief Engineer; V. R. Walling, Principal Assistant Engineer, and C. E. Minor, Assistant Engineer in Charge.

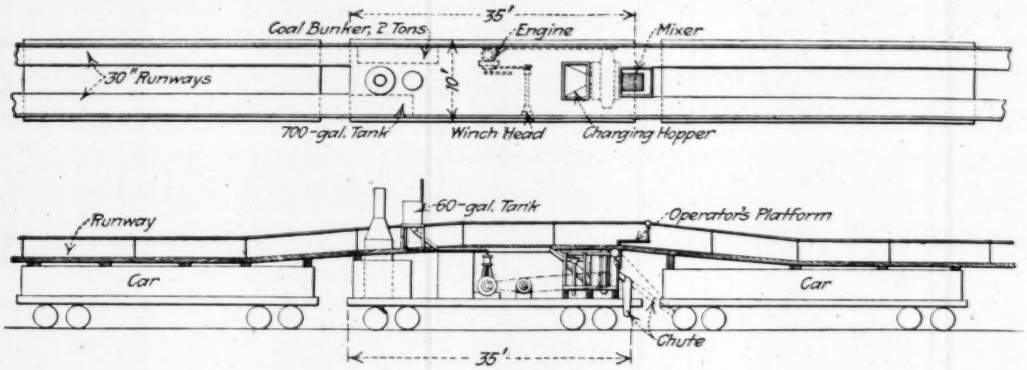
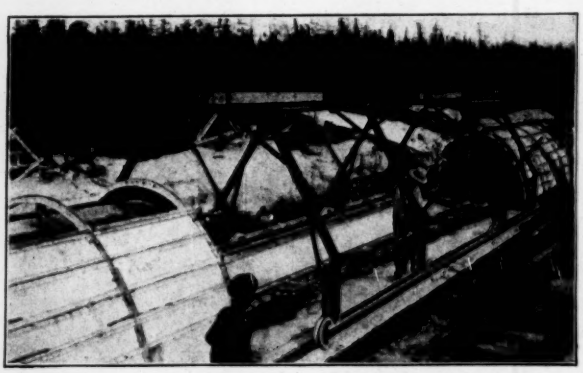


FIG. 3. CONCRETING TRAIN FOR TRACK-ELEVATION WORK; CHICAGO & WESTERN INDIANA R.R.

Traveler for Moving Steel Forms of Water Conduit

Light steel travelers are used to move ahead the arch forms of the Greater Winnipeg water-supply aqueduct now under construction for Winnipeg, St. Boniface, Transcona and several adjacent rural municipalities in Canada. The travelers which handle the interior forms run on a 2-ft.-gage track laid on blocks upon the invert floor. The forms are carried on jacks which form a part of the traveler, and are lined up by turnbuckles on rods which are hinged to the traveler frame. By this method a full arch section of forms 45 ft. in length can be moved at a time. As soon as a section of interior forms is placed, the traveler is run out from under it and the forms are bolted up.

The exterior forms are in 5-ft. sections, which are bolted together to form the full 45-ft. length. These forms are handled variously by the different contractors. In some cases they are taken apart and moved by hand; in others they are lifted as a unit and swung forward by a derrick, while in still other instances a special carrier is employed which straddles the whole construction in the trench, as shown in the illustration. In this case the traveler running on an auxiliary track outside the arch, picks up the outside form (45 ft. long) and transports it to the next section. To remove the outside form, it is suspended by hooks from the roof of the traveler and the sides of the form are connected to the traveler by ratchets operated by long handles. Tightening the ratchets lifts and loosens the form from the hardened concrete. The traveler was built in Winnipeg for the Winnipeg Aqueduct Construction Co.



TRAVELER MOVES FORMS IN COMPLETE SECTIONS WITHOUT DISTURBING ALIGNMENT

Building an Oil-Storage Plant Under Difficulties

A new fuel-oil storage plant has been completed in Providence, R. I., for the Mexican Petroleum Co.—the first of several plants to be built in that locality for supplying oil to various mills. Owing to the small tract of land available on the water front, a number of engineering difficulties were encountered.

Two steel storage tanks were decided upon—one 144½ ft. in diameter and the other 94½ ft. These were placed 3 ft. above mean water, and owing to the unsatisfactory ground, this was excavated to mean high water. Then 55-ft. piles were driven to refusal—700 for tank No. 1 and 500 for tank No. 2. The piles were cut off 6 in. above mean high water, and a 3-ft. slab of concrete was laid on them. In placing the concrete a narrow-gage track was laid, and steel dump cars were run from a ¾-yd. cube mixer. As high as 125 cu.yd. was laid in a 10-hr. day.

Fire walls being necessary, for the larger tank an earth bank was thrown up to 16 ft. above mean high

water by a revolving steam shovel working inside the ring. For tank No. 2 a concrete retaining wall was laid from mean high water up to 12 ft. above; 35- and 40-ft. piles were driven in the ground underneath at 3-ft. centers.

A concrete pump house was built with foundations at mean high water level. The bottom was rod-reinforced,

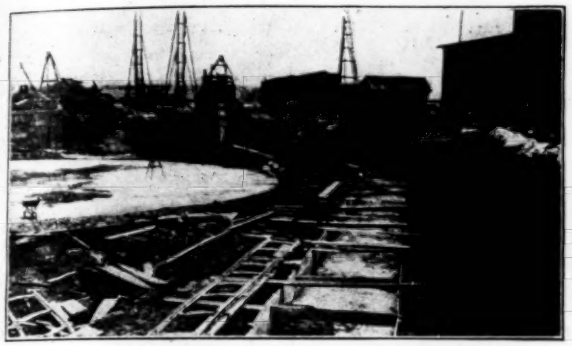


FIG. 1. TANK FOUNDATIONS AND RETAINING WALL. PROVIDENCE OIL-STORAGE TANK

and the bottom and sides were waterproofed. The waterproofing was carried 6 ft. up the walls since the natural surface of the ground was that much above the floor.

As the soil on the water-front side was clay with an underlying layer of fairly soft mud on an inclined hardpan bottom, precautions were taken to prevent sliding. Five rows of piles on 5 ft. 9 in. centers were driven and tied together on top with a reinforced-concrete slab. Anchor rods in the concrete were tied to a close-sheathed timber bulkhead with brace piles. This slab also acts as a foundation for part of the firewall of tank No. 1.

There is a 10-in. pipe line on the upstream side of the dock with 8-in. extensions to both tanks. These serve as charging lines for the plant and loading lines for barges and oil-burning vessels. Screw couplings were used except where flange couplings were necessary. Notwithstanding intricate piping in the pumphouse, the lines are reported absolutely tight. Supply pipes were laid from the pumphouse to a tank-car loading rack placed for overhead loading of five cars at once. An extension goes to an automobile loading rack. In the pumphouse two steam suction pumps were connected to draw from both tanks. The pumps can be worked separately, and valves are placed so that each pump can be repaired without closing down the plant.

The oil is of 14° Bé. specific gravity. It was necessary to run steam mains in the tanks and pipe lines, and steam is supplied by two 70-hp. oil-burning boilers. Instead of covering the floor of the tanks with steam coils as is customary, three sets of coils were placed before the suction pipe. These have a heating surface sufficient to liquefy about 500 gal. per min. The tanks were equipped with foam-system fire extinguishers.

In the construction of the plant Frederic Ewing represented the Mexican Petroleum Co. Ellis & Hauck, of Providence, were the engineers.

A Simple Accounting System for Highway Maintenance

Maintenance cost accounting is receiving much study from highway engineers, because it is realized that the results of such cost analysis and the conclusions drawn from it are the only way of solving the problem of economic roadbuilding. Failures in the past to arrive at any definite conclusions arise from many causes, but chief of these are a lack of consistent policy in road-maintenance methods and a lack of serviceable maintenance cost records.

A serviceable cost account not only furnishes annual financial statistics in detail, such as are commonly given in state highway reports, but furnishes the responsible engineers with working data throughout the year, so that comparisons can be made of the cost of various types of construction and various maintenance methods for the same service.

With a large office force of clerks and bookkeepers it is possible to build up a great mass of very detailed cost data of unquestioned value if properly digested and used. The trouble is that highway engineers are usually too busy to undertake the analysis of any large accumulation of material, and hence its usefulness is often open to question. Simplicity and utility should be the aims, and some practical use should be made of the data once accumulated. To meet these ends the cost-keeping system of the maintenance division of the Ohio State Highway Department serves admirably. Special effort has been made to eliminate all unnecessary detail.

The first point considered is the road unit to be used in cost keeping. Each through road is designated by name or number, and then further subdivision into sections of convenient length is made. This section length is determined by traffic, geographic conditions, and type of pavement. It ranges up to 8 or 10 mi. Natural

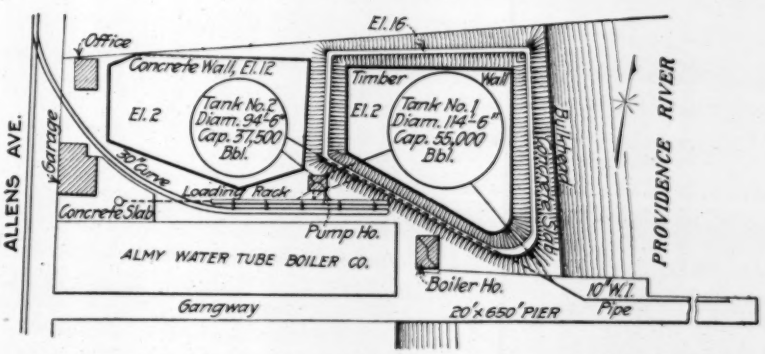


FIG. 2. PLAN OF FUEL-OIL STORAGE PLANT, PROVIDENCE, R. I.

features such as corporation lines, cross-roads or rivers are ordinarly selected as section termini.

The first step is the preparation of estimates for maintenance and repairs before the beginning of each season. These estimates are assembled on blank forms containing the following headings: Highway number, Section number, Length, Type, Nature of repairs needed, Bituminous material required, Division of the estimated cost between county and state, and Total cost.

The elements used in routine are the usual requisitions, the material bills or statements, daily post-card reports,

biweekly payrolls, summarized material reports and final summaries of labor and materials for the completed job. Each bill receives rubber-stamp impressions as follows:

M & R.....	Roadbed ..... $
Co.	Surface ..... $
I. C. H. No.....	Bridges and culverts $
Sec.	Equipment ..... $
	Superintendence .... $
	Total ..... $

Bills for all material, equipment, etc., are stamped, and the distribution of cost is made at once in the field by the superintendent. The bills are then forwarded in duplicate to the Highway Department office and filed. Triplicates are kept by the superintendent and are entered on a final material record sheet for the entire section of road. These sheets contain the following data: Item number, Parties furnishing material or service, Material received or service rendered, Date ordered, Car initial and number, Date delivered, Date unloaded, Quantity (superintendent's report, company's report), Cost (unit, total), Date invoice approved. On the reverse side a distribution of the cost of each item is made as on the bills.

No..... **DAILY REPORT** I. C. H. No.....
Repair of
.....Road, Section.....
.....County.

	Teams	Single Horses	Supt. For.	Men			Roller		
Number Employed									
Total Hours									
Rate per Hour									

	Kind of Work Done	Station to Station	Cu. or Sq. Yards	Team Cost	Single Horse Cost	Man Cost	Roller Cost		
Roadbed	Heavy Earth Work								
	Shoulders and Ditches								
Surface	Surfacing								
	Bituminous Work								
	Hauling								
	Unloading								
	Culverts and Bridges								
	TOTALS								

Material Received **Car Initial and No.**

.....,.....
.....,.....
.....,.....

Date.....19.....

.....
Superintendent.
Foreman.

DAILY WORK CARD, OHIO STATE HIGHWAY DEPARTMENT

The daily-report post card is shown in the accompanying illustration. On the reverse side are the printed address and blanks for the following entries: Time arrived on work, Quit work, Weather, Remarks. The biweekly payroll is of the usual type. It is sent to the Highway Department office in duplicate and contains the signatures and addresses of the payees.

The final record of expenditures for maintenance and repair of a section of road is made up in the Highway Department office from the data contained in the payroll and material report; the daily post-card reports and the original bills are the checks. One side of the final cost sheet is identical with the material sheet except that the columns "Date Delivered" and "Date Unloaded" are omitted. On the reverse side are the following four entries, each with two columns, one headed "Labor" and the other "Material": Roadbed, Surface, Bridges, Equipment. There is a column for superintendence costs and one for remarks. This summary is a detail record in concrete usable form. The sheets are 13¾x8½ in., for filing in a loose-leaf binder.

The heading "Roadbed" is intended to cover such operations as cleaning ditches, repairing shoulders, cutting grass, etc., which in many instances are not separated from the maintenance cost for the pavement proper. In this scheme pavement maintenance comes under the heading "Surface."

The State Highway Commissioner of Ohio is Clinton Cowen, and the Deputy Commissioner in charge of repair and maintenance is A. H. Hinkle, from whom the foregoing information was obtained.

Two Steam Shovels in One Cut

Opening a new gravel pit on the property of the Atwood-Davis Sand Co., of Beloit, Wis., called for a through cut ½ mi. long and 38 ft. deep. Two steam shovels were employed to bring the cut to full width—55 ft. at the bottom and 140 ft. at the top. Fig. 2 shows a 70-ton Vulcan equipped with a 3-yd. dipper, preceded at the right by an 18-B Bucyrus having a ⅞-yd. dipper. Both shovels load the same hopper cars, as shown in

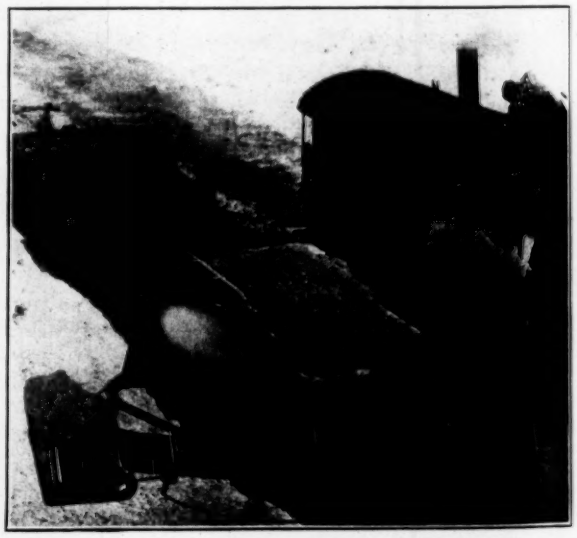


FIG. 1. A SMALL BUCYRUS AND A 70-TON VULCAN LOADING THE SAME CAR

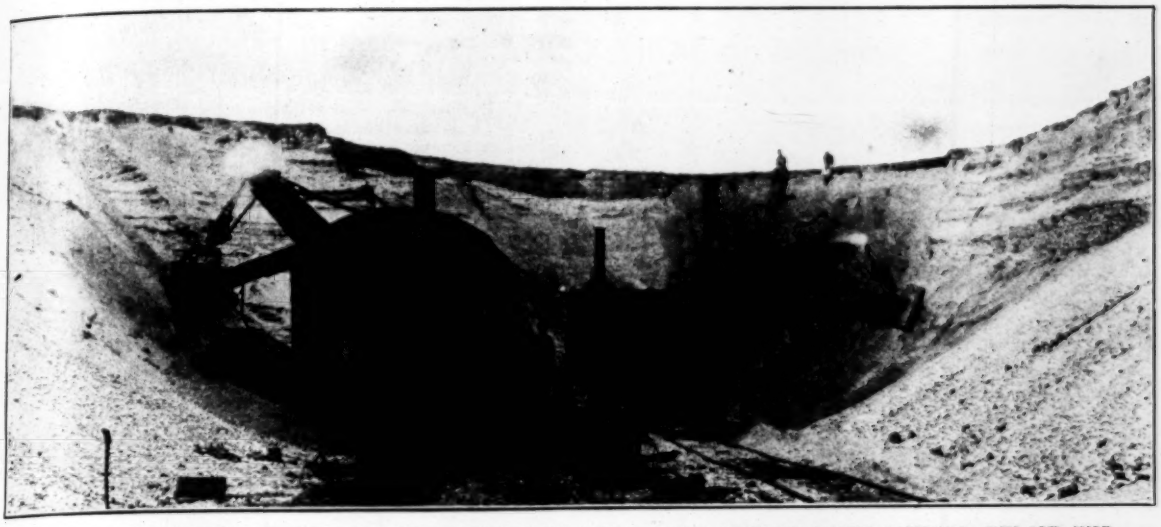


FIG. 2. TWO STEAM SHOVELS DIGGING GRAVEL IN A 38-FT. CUT, ATWOOD-DAVIS SAND CO., BELOIT, WIS.

Fig. 1. A 22-yd. car is loaded in 2½ min., according to the *Excavating Engineer,* and the average output is 45 cars in 10 hr.

The revolving shovel has tractor wheels and stands on three 5½x14-ft. timber floats, 6 in. thick. The floats are blocked up over the loading track. While waiting for empties the revolving shovel overcasts in front of the larger shovel, in order to keep ahead of the latter.

The cars are drawn by a 55-ton standard-gage locomotive. The tender was lengthened to carry on its rear end a coal bunker having capacity for two days' supply for the shovels. This scheme makes their operation as continuous as desired. The two-shovel arrangement was planned out by George B. Harker, superintendent of the sand company.

Table of Feet in Decimals of a Mile

The accompanying table, computed by N. J. Brady, Detroit, Mich., can save a large total of time in railway and road calculations. It is well worth space in the engineer's notebook.

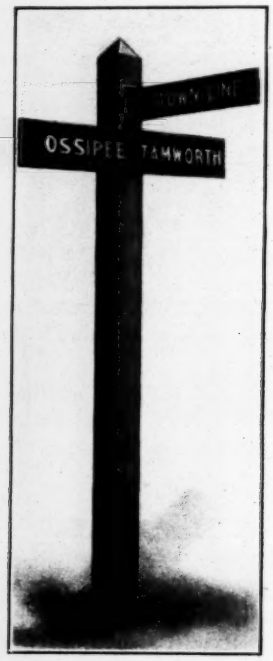
TABLE OF FEET IN DECIMALS OF A MILE

Miles	0.000 Ft.	0.001 Ft.	0.002 Ft.	0.003 Ft.	0.004 Ft.	0.005 Ft.	0.006 Ft.	0.007 Ft.	0.008 Ft.	0.009 Ft.
0.00	....	5	11	16	21	26	32	37	42	48
0.01	53	58	63	69	74	79	84	90	95	100
0.02	106	111	116	121	127	132	137	143	148	153
0.03	158	164	169	174	180	185	190	195	201	206
0.04	211	216	222	227	232	238	243	248	253	259
0.05	264	269	275	280	285	290	296	301	306	312
0.06	317	322	327	333	338	343	348	354	359	364
0.07	370	375	380	385	391	396	401	407	412	417
0.08	422	428	433	438	444	449	454	459	465	470
0.09	475	480	486	491	496	502	507	512	517	523
0.10	528	533	539	544	549	554	560	565	570	576
0.11	581	586	591	597	602	607	612	618	623	628
0.12	634	639	644	649	655	660	665	671	676	681
0.13	686	692	697	702	708	713	718	723	729	734
0.14	739	744	750	755	760	766	771	776	781	787
0.15	792	797	803	808	813	818	824	829	834	840
0.16	845	850	855	861	866	871	876	882	887	892
0.17	898	903	908	913	919	924	929	935	940	945
0.18	950	956	961	966	972	977	982	987	993	998
0.19	1003	1008	1014	1019	1024	1030	1035	1040	1045	1051
0.20	1056	1061	1067	1072	1077	1082	1088	1093	1098	1104
0.21	1109	1114	1119	1125	1130	1135	1140	1146	1151	1156
0.22	1162	1167	1172	1177	1183	1188	1193	1199	1204	1209
0.23	1214	1220	1225	1230	1236	1241	1246	1251	1257	1262
0.24	1267	1272	1278	1283	1288	1294	1299	1304	1309	1315
0.25	1320	1325	1331	1336	1341	1346	1352	1357	1362	1368
0.26	1373	1378	1383	1389	1394	1399	1404	1410	1415	1420
0.27	1426	1431	1436	1441	1447	1452	1457	1463	1468	1473
0.28	1478	1484	1489	1494	1500	1505	1510	1515	1521	1526
0.29	1531	1536	1542	1547	1552	1558	1563	1568	1573	1579
0.30	1584	1589	1595	1600	1605	1610	1616	1621	1626	1632
0.31	1637	1642	1647	1653	1658	1663	1668	1674	1679	1684
0.32	1690	1695	1700	1705	1711	1716	1721	1727	1732	1737
0.33	1742	1748	1753	1758	1764	1769	1774	1779	1785	1790
0.34	1795	1800	1806	1811	1816	1822	1827	1832	1837	1843
0.35	1848	1853	1859	1864	1869	1874	1880	1885	1890	1896
0.36	1901	1906	1911	1917	1922	1927	1932	1938	1943	1948
0.37	1954	1959	1964	1969	1975	1980	1985	1991	1996	2001
0.38	2006	2012	2017	2022	2028	2033	2038	2043	2049	2054
0.39	2059	2064	2070	2075	2080	2086	2091	2096	2101	2107
0.40	2112	2117	2123	2128	2133	2138	2144	2149	2154	2160
0.41	2165	2170	2175	2181	2186	2191	2196	2202	2207	2212
0.42	2218	2223	2228	2233	2239	2244	2249	2255	2260	2265
0.43	2270	2276	2281	2286	2292	2297	2302	2307	2313	2318
0.44	2323	2328	2334	2339	2344	2350	2355	2360	2365	2371
0.45	2376	2381	2387	2392	2397	2402	2408	2413	2418	2424
0.46	2429	2434	2439	2445	2450	2455	2460	2466	2471	2476
0.47	2482	2487	2492	2497	2503	2508	2513	2519	2524	2529
0.48	2534	2540	2545	2550	2556	2561	2566	2571	2577	2582
0.49	2587	2592	2598	2603	2608	2614	2619	2624	2629	2635

Miles	0.000 Ft.	0.001 Ft.	0.002 Ft.	0.003 Ft.	0.004 Ft.	0.005 Ft.	0.006 Ft.	0.007 Ft.	0.008 Ft.	0.009 Ft.
0.50	2640	2645	2651	2656	2661	2666	2672	2677	2682	2688
0.51	2693	2698	2703	2709	2714	2719	2724	2730	2735	2740
0.52	2746	2751	2756	2761	2767	2772	2777	2783	2788	2793
0.53	2798	2804	2809	2814	2820	2825	2830	2835	2841	2846
0.54	2851	2856	2862	2867	2872	2878	2883	2888	2893	2899
0.55	2904	2909	2915	2920	2925	2930	2936	2941	2946	2952
0.56	2957	2962	2967	2973	2978	2983	2988	2994	2999	3004
0.57	3010	3015	3020	3025	3031	3036	3041	3047	3052	3057
0.58	3062	3068	3073	3078	3084	3089	3094	3099	3105	3110
0.59	3115	3120	3126	3131	3136	3142	3147	3152	3157	3164
0.60	3168	3173	3179	3184	3189	3194	3200	3205	3210	3216
0.61	3221	3226	3231	3237	3242	3247	3252	3258	3263	3268
0.62	3274	3279	3284	3289	3295	3300	3305	3311	3316	3321
0.63	3326	3332	3337	3342	3348	3353	3358	3363	3369	3374
0.64	3379	3384	3390	3395	3400	3406	3411	3416	3421	3427
0.65	3432	3437	3443	3448	3453	3458	3464	3469	3474	3480
0.66	3485	3490	3495	3501	3506	3511	3516	3522	3527	3532
0.67	3538	3543	3548	3553	3559	3564	3569	3575	3580	3585
0.68	3590	3596	3601	3606	3612	3617	3622	3627	3633	3638
0.69	3643	3648	3654	3659	3664	3670	3675	3680	3685	3691
0.70	3696	3701	3707	3712	3717	3722	3728	3733	3738	3744
0.71	3749	3754	3759	3765	3770	3775	3780	3786	3791	3796
0.72	3802	3807	3812	3817	3823	3828	3833	3839	3844	3849
0.73	3854	3860	3865	3870	3876	3881	3886	3891	3897	3902
0.74	3907	3912	3918	3923	3928	3934	3939	3944	3949	3955
0.75	3960	3965	3971	3976	3681	3986	3992	3997	4002	4008
0.76	4013	4018	4023	4029	4034	4039	4044	4050	4055	4060
0.77	4066	4071	4076	4081	4087	4092	4097	4103	4108	4113
0.78	4118	4124	4129	4134	4140	4145	4150	4155	4161	4166
0.79	4171	4176	4182	4187	4192	4198	4203	4208	4213	4219
0.80	4224	4229	4235	4240	4245	4250	4256	4261	4266	4272
0.81	4277	4282	4287	4293	4298	4303	4308	4314	4319	4324
0.82	4330	4335	4340	4345	4351	4356	4361	4367	4372	4377
0.83	4382	4388	4393	4398	4404	4409	4414	4419	4425	4430
0.84	4435	4440	4446	4451	4456	4462	4467	4472	4477	4483
0.85	4488	4493	4499	4504	4509	4514	4520	4525	4530	4536
0.86	4541	4546	4551	4557	4562	4567	4572	4578	4583	4588
0.87	4594	4599	4604	4609	4615	4620	4625	4631	4636	4641
0.88	4646	4652	4657	4662	4668	4673	4678	4683	4689	4694
0.89	4699	4704	4710	4715	4720	4726	4731	4736	4741	4747
0.90	4752	4757	4763	4768	4773	4778	4784	4789	4794	4800
0.91	4805	4810	4815	4821	4826	4831	4836	4842	4847	4852
0.92	4858	4863	4868	4873	4879	4884	4889	4895	4900	4905
0.93	4910	4916	4921	4926	4932	4937	4942	4947	4953	4958
0.94	4963	4968	4974	4979	4984	4990	4995	5000	5005	5011
0.95	5016	5021	5027	5032	5037	5042	5048	5053	5058	5064
0.96	5069	5074	5079	5085	5090	5095	5100	5106	5111	5116
0.97	5122	5127	5132	5137	5143	5148	5153	5159	5164	5169
0.98	5174	5180	5185	5190	5196	5201	5206	5211	5217	5222
0.99	5227	5232	5238	5243	5248	5254	5259	5264	5269	5275

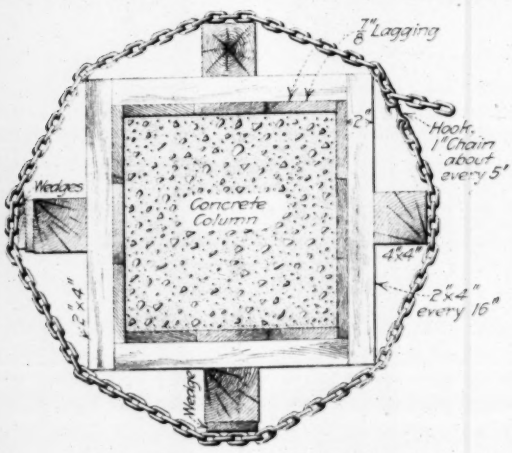
NOTES

Marking Through Highway Routes so that the stranger tourist may readily follow them to his destination without stopping at every branch or crossroad is done in an effective but simple way in New Hampshire. There the difficulty of keeping to the main road is increased because all the roads are of gravel and there is no pavement to follow. Three through routes lead from the Massachusetts state line to the White Mountain country. These are designated both on the map and on the ground by distinctive colors. The Merrimac Valley road is shown green, the East Side road orange, and the West Side road blue. This same color scheme is carried out on the road. At every crossroad or branch three telephone poles each side of the intersection are painted with a band of the color assigned to the highway, inclosed in narrower white bands. To reassure the nervous stranger that he is still on the right road, even where there are few intersecting roads, the end guard-rail posts of each bridge and culvert also receive a color band. The same color scheme is carried out at each crossing of a town line, where signs like that shown in the accompanying illustration are erected, the letters in white and the background of the distinctive road color. There are two east and west through roads marked in a similar manner, the colors being red and brown, respectively. An especially commendable feature of the scheme is that the routes are similarly marked through towns and villages—a plan which saves motor tourists a great deal of annoyance.



NEW HAMPSHIRE TOWNSHIP HIGHWAY SIGN

Column Forms with Chain Ties—On the large cotton warehouse and terminal now under construction at Atlanta, Ga., a novel method of holding the reinforced-concrete column forms is being used. The accompanying section through one of the columns will illustrate the principle. The usual lagging is



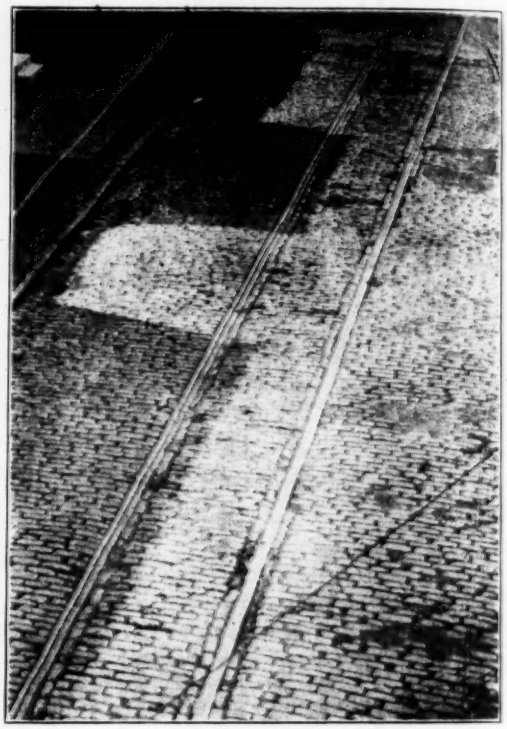
CHAIN TIES ON COLUMN FORMS

Chain shown at walepiece; usual practice is between wales

spiked to 2x4-in. wales spaced every 16 in. vertically. These wales are held in place by vertically placed 4x4's centered on the wales as shown and running the whole length of the column. The 4x4-in. sticks in turn are held tight by chains, spaced about every 5 ft., which are wrapped tight around the form and hooked as shown to complete the circuit. Wedges are then driven where necessary to make the whole form tight. After the concrete has set, the wedges are driven out and the whole form is easily loosened.

Decimals of an Acre in Square Feet—Attention has been called to numerous small errors in the table of decimals of acres in square feet in "Engineering News," of Oct. 7, 1915, p. 702. The number of square feet given for 0.117 acre is 5,097 instead of 5,079 as printed. The other errors are of 5 ft. only to 0.5 acre, and beyond there in many cases the error is 2 ft. B. F. Sperow, of the Carolina, Clinchfield & Ohio R. R. has discovered about 400 such errors. The original table was computed on a computing machine and it seems probable there was some systematic error of setting.

Engineering Photography has been developed to meet many special purposes, such as photosurveying, and not the least important is to furnish testimony in lawsuits, etc. Largely to meet this latter purpose Geo. A. Seip, a professional photographer of Philadelphia, has constructed a camera that can be suspended from a rope strung across a street and



AËRIAL PHOTOGRAPH OF STREET PAVEMENT TO SHOW DEFECTS

operated by clockwork in the camera. The accompanying illustration is from a photograph of a street pavement; it is intended to demonstrate to the lay mind that the pavement is mighty poor. Accompanying this photograph were two enlargements to bring out particular features. While there is nothing new in aërial photography, the scheme of suspending a camera on a rope across a street between two buildings has some novelty.

Low Bidder Made Mistake but Gets Contract—A public-works contract has just been awarded in New York City to a bidder who declared that he had made a mistake in his figures and therefore desired to withdraw his bid (after opening). The contract is for the installation of tracks on the White Plains Road extension of the Lenox Ave. subway. The lowest bidder was the Coast and Lake Contracting Corporation, at $53,930.50. The next lowest bidder was the Southeastern Construction and Engineering Corporation, at $101,205.86, and the other bids ranged up to $137,290.67. After the bids had been opened the low bidder advised the Public Service Commission that he desired to withdraw, as he had made a mistake in his figures, but the Commission, following its usual policy of awarding contracts to the lowest bidder, made the award, so as to give the Coast and Lake Corporation a chance to accept or reject the work.

Editorials

Good Wishes for 1916

To each and every one of its readers *Engineering News* extends its greetings and good wishes for the New Year.

Few engineers in this country will feel any regret over the final passing of the year 1915. One must go back more than a generation to find a year of harder times for those engaged in civil-engineering construction. There has been little complaint, however, for people have involuntarily contrasted the fortunate condition of this country with the conditions prevailing over a large part of the civilized world.

Fortunately the present business outlook for the United States is vastly better than that of a year ago. It is true that the unprecedented events of the war have often proved the predictions of the wisest economists and financiers to be at fault and that the revolutionary changes which seem to be ahead of us are so many and so complex that no conservative man is willing to make any definite prediction as to the conditions which will prevail very far in the future. The immediate outlook, however, is for a period of business prosperity and activity such as the United States has not known for many years, and many lines of wholesale and retail trade and certain industries such as iron and steel production are already in the midst of a boom period.

This revival of general business has already had a marked influence in stimulating work in various fields of civil-engineering construction. There is no longer difficulty in finding money to finance new enterprises of real merit. The restoration of confidence in the banking and investment community has been a notable feature of the past six months and is one of the most favorable indications that 1916 will be a far better year for engineers than was the year just closing.

It is worth emphasis in this connection that the engineers who will profit most from the revival of engineering activity will be those who have kept themselves abreast of the times and are able to meet the changing conditions and demands in the field of engineering service. During the trying year now closing there has been more emphasis than ever before upon the need for efficiency in the conduct of engineering operations.

With all the exaggerations in connection with the efficiency movement and with all the drawbacks due to the work done by some of the amateur efficiency experts, there can be no doubt that real efficiency in the conduct of all productive enterprises is better understood and appreciated than ever before.

The engineer or the constructor who fails to keep himself well posted on the improvements continually being made in his field of work and on the relation of his work to other fields of industrial and economic activity is very apt to find himself beaten in the race of competition by some better-equipped rival. The better the service that the engineering profession can render to the public, the better in the long run will be its chances for continued and profitable employment.

Too Many Highway Meetings

Why should there be two separate national organizations of highway engineers, each holding an annual convention to which all highway engineers the country over are invited and to which all manufacturers of highway supplies and machinery are urged to bring exhibits? The question has been asked with increasing emphasis during the last three or four years by highway engineers all over the country, who would like to attend one convention a year at which the leading men of the industry were assembled, but who cannot and will not afford the time and expense necessary to attend two. The question has been asked with even greater emphasis by the firms dealing in highway supplies and machinery, many of whom have declared that they will no longer undergo the heavy expense of making exhibits at the conventions of two rival associations covering the same field. Practically the same group of men visits the two conventions, and this expense is doubled and attendance duplicated.

At the time the American Road Builders' Association was organized a number of prominent engineers gave it their active support in the belief that the older organization, the American Highway Association, was giving too much prominence to the political end of the good-roads movement and was in danger of becoming an organization whose chief aim would be to secure Federal appropriations for road construction.

That danger, if it existed, long since passed away. Each of these societies has come to be primarily an organization of engineers and others actively engaged in road construction. These are the men who constitute the strength of each organization, and it is the papers and discussions from these men that give standing to the meetings of each society. Papers read before one society deal with the same subjects as those read before the other, and often are written by the same authors. The exhibits of road machinery and supplies, which form one of the most important features of the annual convention, are practically identical at each meeting.

Why, then, should the highway engineers and the highway industry continue to support two rival associations, covering practically the same field? Why should there not be one strong association, with such standing that its work would have the same authority as that of the Society for Testing Materials or the Automobile Engineers' Society?

These are the questions which confront the officers of the two societies, and it remains to be seen how they will solve the problem. What seemed to some like an initial step toward coöperation was taken last fall when the two organizations agreed to hold an "International Highway Congress" at Oakland, Calif., in September, under the joint authority of the two. It has developed, however, that the coöperation in the Oakland meeting was not meant to establish a precedent for future meetings. Further, the Oakland meeting was so nearly a failure that it gave little encouragement that joint conduct of meet-

ings, with the two associations continuing their independent existence, was a good solution of the problem.

Another attempt of this sort, however, is now being made. The board of directors of the American Road Builders' Association at a special meeting on Dec. 16 decided to hold a convention in Pittsburgh, beginning Feb. 28, and held out a small olive branch to the rival association, inviting it to hold its convention at the same time and place, the program of the two conventions to be arranged by a joint committee of the two associations. At the same time the directors declared that consolidation of the two associations is "inexpedient" at the present time and that the holding of a joint convention is impracticable. What response the American Highway Association will make to this invitation remains to be seen, but it appears extremely doubtful whether it will consent to have the time and place of its annual convention fixed by the rival association.

One hears no very urgent demand for the holding of a national meeting of highway engineers of all classes at the date proposed. The highway engineers of New England have just attended, in very considerable numbers, an "International Road Congress" at Worcester, which was engineered by the Worcester Chamber of Commerce. In Chicago, on Feb. 16 to 18, there is to be held a second national conference on concrete-road construction, a meeting which, while devoted to one specific class of roadwork, promises to attract a large attendance and to perform a very useful work.

The situation is one which admits of no halfway measures. There is need of a strong, influential, national engineering organization devoted to highway construction and maintenance. Such an organization can be made powerful and prosperous, and room can be found in it for men who are interested in all the different aspects of highway construction. It need not be an organization merely of engineers. But there is not room for two rival organizations in this field. Those who are appealed to for financial and technical support are ready to exclaim, "A plague on both your houses!" It is time that personal differences and preferences were put one side; and while these past differences are doubtless too great to permit either association to commit hara-kiri for the benefit of the other, it ought to be possible to organize a new association on proper lines with independent officers in no way tied up to the rivalries of the past and have the two old associations bequeath to it all their possessions and wind up their existence. Any measure less radical seems little likely to succeed.

A Sinking-Fund Delusion

If a utility company is to recover the loss of capital caused by the depreciation of its plant, the customers must pay for it in the rates charged them for service. This is clear; it is equally obvious that there is no way to lessen the amount which the customers must pay—if the company recovers the loss *in full*. Yet many people, including such an eminent man as the respected Halford Erickson, of the Wisconsin Commission, claim there is a way in which this miracle has been and can be accomplished.

Now there are two general types of plans followed in this country in extracting indemnity for depreciation out of the customer's pocket. First, there are the direct-repayment, or "straight-line," schemes which aim directly to repay the company for the actual annual loss in impaired capital. The second, or "sinking-fund," group of plans takes out of earnings an annuity which would, if put into a true accumulating sinking fund, equal the cost of the depreciating property when discarded. Since obviously reimbursement for depreciation can come only from the customers, if both of these plans really do cover the depreciation loss, either one must cost the customers the same as the other. Claiming that one plan is cheaper than the other is only doing a trick in words or in bookkeeping.

We may see what the trick is from a few of Mr. Erickson's remarks in a paper before the recent Philadelphia Valuation Conference (noted in *Engineering News*, Nov. 18, 1915):

> Without going into details, it can be said that the sinking-fund method employs a more efficient use of the reserve [than the straight-line plan]. Because of such use, the amount the consumers will have to contribute to cover depreciation is less than under the straight-line method.
>
> Where the amounts so provided have been used for necessary and proper renewals and for the accumulation of a reserve for covering the accrued depreciation of the property still in use, no reduction from the cost new, because of depreciation, should be made in determining the fair value for rate making and certain other purposes.

All that Mr. Erickson and others do is to ask the customer to pay more for interest on capital and less for depreciation. The total is unchanged. The "sinking-fund" annuity is less than the actual annual depreciation loss, and the discrepancy is recovered in interest on a plant value larger than the actual present figures. This interest they do not recognize as part of the depreciation indemnity.

If the matter ended there, this use of the sinking-fund computations would harm no one. But the United States Supreme Court has ruled (City of Knoxville vs. Knoxville Water Co., 29 Sup. Ct. Rep. 148) that the company each year is entitled to recover a dollar, above interest and profits, for each dollar by which the plant that year has lost value in service, while present (depreciated) value must be the basis of rates. It is immediately seen how Mr. Erickson's views run counter to the court's dictum in that he does not openly year by year give a company ample indemnity for depreciation losses, and in that he includes a nonexistent and lost element in the value of the plant. It would clarify all our ideas if we abandoned sinking-fund talk and stuck to the simpler direct annual repayment plans for computing the customer's burden.

The objection that many have held against straight-line or direct-repayment plans of handling depreciation reimbursement has been that the early repayments were larger than the real depreciation and in the later years smaller. But the direct-repayment plan can be handled so that depreciation and the repayment therefor go hand in hand. That was done a few years ago by Frederic P. Stearns when he developed his "equal-annual-payment" plan (described in *Engineering News*, Feb. 12, 1914, p. 350). Briefly stated, each annual compensation is made numerically equal to a hypothetical sinking-fund annuity plus the interest accretion of a hypothetical reserve fund. The customers are loaded with exactly the same costs as under the procedure indicated by Mr. Erickson, but everything is correctly labeled, delusions are dissipated, and the law is entirely satisfied.

Reorganizing the Interstate Commerce Commission

Scarcely anyone doubts that the policy of railway regulation by governmental authority is here to stay. Everyone agrees, likewise, that in the interest of both the public and the owners of the railways, and of those who hold the stocks and bonds, government regulation should be honest, intelligent and effective. To carry out the policy of Federal railway regulation, Congress has given to seven men, constituting the Interstate Commerce Commission, authority over the operations of about 250,000 mi. of interstate railways. Congress has further specified in connection with these railways detail duties for the commission which are beyond the physical ability of any seven men not gifted with superhuman powers to perform efficiently and intelligently.

In its annual report just issued the commission declares that the variety and volume of the work already laid upon it make necessary an early enlargement of its membership and legal authority to take final action through subdivisions of its membership, of course under the general authority of the commission as a whole. Bills to effect this have already been introduced in Congress, and the subject is one of pressing public importance.

As is well known, the commission is compelled by law to be both an executive and a judicial body. As a judicial body it has to hold hearings and render decisions. Some idea of the volume of this work may be gained from the statement that the commission has during the year conducted 1,543 hearings, in which 200,438 pages of testimony were taken; 198 of these cases were orally argued, consuming 103 days in sittings.

While the commission, in order to handle this vast mass of judicial work, employs a force of examiners, somewhat as the judges of the Federal Court assign masters to hold hearings and render reports, the decisions must of course be rendered by the commission itself; and on these decisions hang many great commercial interests. The commission also acts in a judicial capacity in conducting investigations, many of which are exceedingly complicated and involved. They require a great deal of time and effort in order that justice shall be done.

The commission receives and files all railway rate schedules, something like 150,000 being filed in the year just closed. It has jurisdiction over the standard classification of freight and over the operations of express companies. An entire division under the commission is engaged in the search for violations of the laws which the commission was created to enforce. The legal division has charge of all the cases in which the commission appears as a party. The commission has control of the accounting systems of the railways; it collects and compiles the official statistics of railway operations; it conducts investigations of important train accidents to determine their causes; it investigates safety devices of various sorts; it examines periodically all the locomotives in the United States to determine their safety for operation. The immense task of valuing all the railways in the United States is in its charge.

The responsibility for the conduct of all this work is laid upon the shoulders of seven men, who, it may be noted, receive a total compensation of $70,000 per annum—a sum no larger than is paid as a salary to the president of a single railway corporation, who is in charge of operations not a twentieth part the extent of those over which the commission holds jurisdiction, and with very much smaller powers.

It is probably not to be expected that Congress will increase the salaries of the Interstate Commerce Commissioners to correspond to what men would receive for equally great responsibilities in private business. It ought at least, however, to revise the salary schedule and bring it up to the mark set by Justice Hughes when as the governor of New York he fixed the salary of the Public Service Commissioners in that state at $15,000 per annum. Such a rate of compensation, in view of the change in the value of the dollar that has taken place and the increase in the cost of living, would be no higher salary than the $10,000 rate that was fixed when the Interstate Commerce Commission was created in 1887.

But more important than an increase of salary is the reorganization of the commission on broad and intelligent lines and in a manner that will enable it to discharge its duties efficiently. The way is open for such a reorganization now, through the changed attitude of railway officers toward the commission. In place of the antagonism and opposition to government control which the railways maintained during the first 20 years or so of the commission's existence, there is now full acquiescence in the idea that railway regulation through commissions is here to stay. With this established there ought to be no dissent from the proposition that an organization of able men adequate to deal with the great task ought to be created.

Fatigue in the Spokane Bridge

The worst bridge accident for some years, the Spokane collapse, presents unexpected fact and unexpected theory. During a generation at least no failure by breaking of eye-bars has been recorded. The few tension failures of recent times were all complicated by large bending stresses, as for example the alarming breakage of suspender rods in the Brooklyn Bridge 14 yr. ago. The Spokane failure is therefore startlingly new even in its main fact. Still more startling is the fact that the break occurred at very low stress—not much over 16,000 lb. per sq.in. even if one bar carried the entire stress. Finally the fact that short crystalline breaks are in evidence is a complete surprise.

Four engineers in reporting on the case blame the break on "granulation" of the bars; they do not state what caused the "granulation." Another engineer, testifying at the inquest, spoke of "fatigue"—that ancient bugbear of bridge engineering. Just this year the reconstruction of the New York elevated railways gives special opportunity to point out that the thousands of tons of iron and steel in that structure have stood 25 to 35 yr. with a history of stress-repetition, vibration and impact probably unparalleled in the history of iron construction. They have never showed any "fatigue" effects, or "crystallization." Most of the old metal is being continued in service in the rebuilt structure, and without doubt is as good as it was at the start.

"Fatigue crystallization" is properly obsolete. But damage to internal structure of metal by wrong heat-treatment, and under certain conditions by mechanical violence, is a reality that needs to come under closer scrutiny than it has in the past.

Letters to the Editor

Cement Joints for Cast-Iron Pipe at Los Angeles

Sir—I was much interested in your editorial article of Nov. 25, 1915, on cement pipe joints, commenting on the paper on the same subject appearing among the regular subjects in the same issue. In connection therewith I would call your attention to *Engineering News* of Dec. 8, 1904, in which appears a lengthy communication from the late James D. Schuyler on the same subject, dealing with some of our experiences in the water-works of the City of Los Angeles, as well as in the Southwest generally.

It has been our universal practice for more than 20 years in the water-works of the City of Los Angeles to lay cast-iron pipe with cement joints; indeed a few of our largest steel lines also, not alone for reasons of economy, but because as a matter of fact we got a better joint and strange as it may seem, fully as flexible a joint as we obtained with lead. We do not claim, however, that the idea originated with us, as it was the common practice in the older water-works, where cement-lined pipes were used, to join them with sleeve joints having cement packing.

The water-works of the City of Los Angeles were begun in 1868, and the writer found the bell end gates packed with cement inserted in the 8-in. cast-iron line that originally formed the trunk line for the city supply. It is the writer's opinion that there is no limit of pressure within the ordinary strength of cast-iron pipe itself precluding the use of cement joints.

In 1895 the water-works department of Los Angeles laid on Hoover St. a 30-in. line of cast-iron pipe that subsequently had to be lowered at three different points for distances ranging from 200 to 800 ft. in length to accommodate the street grade. At one of these places the pipe was lowered nearly 7 ft. at its maximum point of displacement, and this was done without cutting a single joint. Although the pipe wabbled considerably out of alignment in the operation, the seeping leaks caused by the movement all took up automatically without further attention.

I also read with a great deal of interest the contribution of R. S. Lord, in the same issue of your valuable journal, on the subject of wrought-iron pipe couplings, and would say that I have made extensive use both of the Dresser and the Dayton coupling and am firmly convinced of their merit over threaded pipe. The most noted instance of this type of coupling in the writer's practice was in the penstock line of the Upper Division Creek power plant of the Los Angeles aqueduct. This line was 15 in. in diameter, of plain-end lap-welded pipe, coupling together with the type of Dayton coupling shown at Fig. 16 of Mr. Lord's article. We made a marked departure, however, from the ordinary method of using the coupling. Before inserting the triangular-section gasket, neat cement mortar was rubbed into the joint clear around the pipe in the position to be occupied by the gasket, after which the gasket was pulled home in the regular way.

This line has a head at its lower end of 1,266 ft., and the wrought-iron pipe terminates at its upper end in a riveted sheet-steel pipe at a point where the head is about 400 ft. These joints were absolutely tight, not one of them ever showing the least seep; and I am firmly convinced that there is great merit in the use of cement in this connection. This pipe line has been under this constant head since 1908, seven years.

Recently a 12-in. line for natural gas coming into Los Angeles from the Kern River field required the removal of the Dayton couplings, due to some form of carbonization and destruction of the rubber gasket. I firmly believe that if cement had been used in these joints in the manner above indicated, no such trouble would have been experienced, as the cement mortar would have protected the rubber from contact with the injurious elements in the gas.

WILLIAM MULHOLLAND,
Chief Engineer, Bureau of Water-Works.

Los Angeles, Calif., Nov. 30, 1915.

[The article referred to in *Engineering News* of Dec. 8, 1904, gives a large amount of valuable information as to the history of cement joints for pipe and experience with them.—Editor.]

Problem in Sorting Aggregate in Storage Bins

Sir—In supplying graded aggregate for concrete to the several contractors on the 85-mi. aqueduct work, the Greater Winnipeg Water District has operated for the past year a gravel-screening, crushing and mixing plant located at mile 31. In this plant the material is screened into fine, intermediate and coarse (2½-in.) grades, passing directly into bins, from which it is fed through bottom hoppers in definite proportions to a mixing belt. The remixed material is then elevated and distributed by means of a belt conveyor into storage bins located over a loading track. From these storage bins the graded aggregate is loaded directly into 20-yd. air-dump cars and hauled along the District Railway to the various contractors' receiving platforms.

In the operation of this plant we have encountered a difficulty that we have been unable as yet to overcome, and it may be that the experience of some of your readers may help us in this regard. The trouble has been that when the mixed aggregate is dumped from the conveyor belt into the storage bins it naturally cones up and segregates, the fine material staying in the center and the coarse rolling to the outside, with the result that when the bins are emptied the material fed is far from being uniformly graded. We have tried out baffles and a telescopic chute, which is drawn up as the bin is filled, but any method we have as yet devised has not been satisfactory. During the past season we loaded the cars by chuting the material

direct from the conveyor belt over the bins, but this method depriving us of the use of any storage capacity.

I shall be glad to hear if any of your readers have experienced this difficulty, and if they have been able to overcome it in a satisfactory manner. M. V. SAUER,

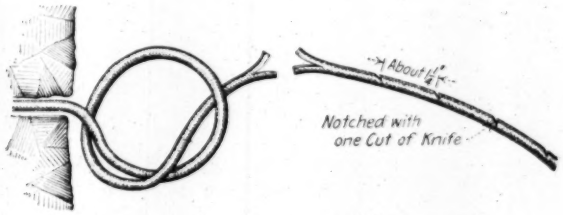
Engineer of Design, Greater Winnipeg Water District.

Winnipeg, Man., Dec. 13, 1915.

Lighting a Fuse with a Fuse

Sir—While not wishing to prolong the discussion on the best way to ignite a blasting fuse, I have a method that I should like to get on record.

First the fuses are arranged so that their cut ends project upward. This may be done by coiling them in a



HOW L. B. CAIN LIGHTS BLASTING FUSES

loose knot. Next, the ends are split for about 3/8 in., exposing the powder. A piece of fuse half as long as the shortest to be fired is notched as is shown in the diagram. The spitter is then lighted and the fuses of the charge are ignited from the successive notches.

The reason for making the spitter one-half the length of the shortest fuse is to give a gage on the time since the first fuse was lighted. Fuse as it is manufactured today is very uniform in its time of burning, so that a glance at the spitter will give a definite idea of the length burned on the first fuse. It is well not to stay longer than the time required to burn one-half the length of the first fuse, but of course this depends on conditions and the length of fuse being used.

This method will be found to be both rapid and convenient. One man can spit, under normal conditions, 18 or 20 fuses in less than one minute when the holes are not scattered too far apart.

I agree with Mr. Martin that short fuses are misplaced economy. LOUIS B. CAIN.

Department of Public Works, Honolulu, T. H.,
Nov. 5, 1915.

Sir—Injecting my little piece into the discussion regarding the different methods of lighting blasting fuses, I will say that I have had marked success in lighting them with a piece of hardwood—preferably oak—about 1 in. in diameter and 1 ft. long, that has been put into a fire until the end is a live coal. I notch the end of the fuses and place a pinch of dynamite therein. The fuse is ignited as soon as the firebrand comes in contact with it. I have lighted as many as 15 charges by this method.

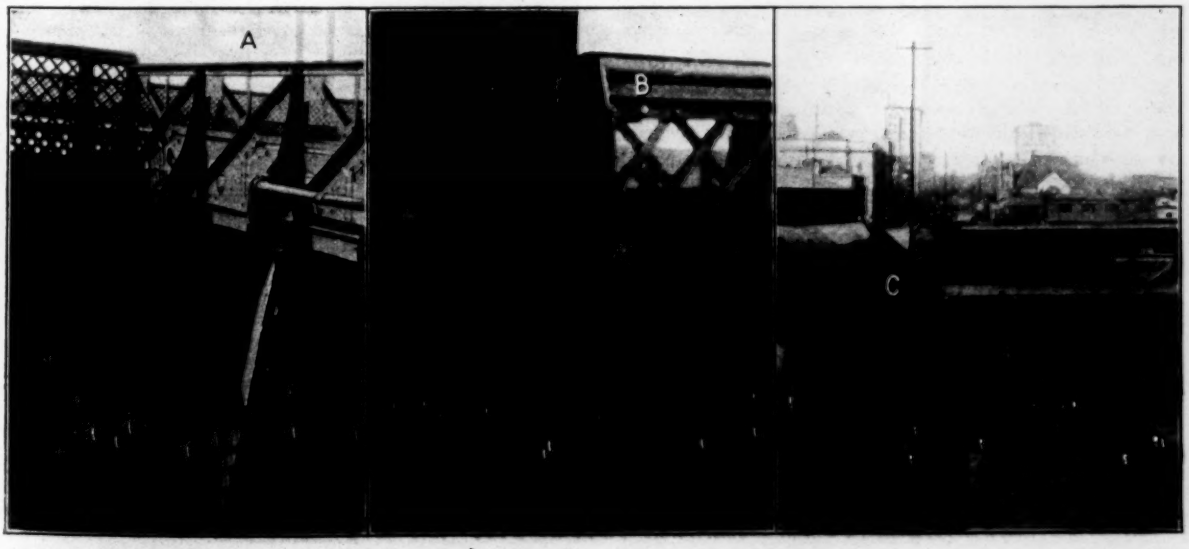
Santa Paula, Calif., Dec. 9, 1915. I. J. GRUNDEL.

Stray Currents on a Bridge

Sir—A year ago when in Youngstown, Ohio, my attention was called to a peculiar condition existing on the Market St. bridge, which spans the Mahoning River valley. The bridge is a steel structure and is about 2,000 ft. long. About midway of its length and about 30 ft. east of it is located the general office of the Republic Iron and Steel Co. This is a brick and iron building rising from the valley below the bridge, and access on a level with the Market St. bridge is had by an iron foot bridge about 6 ft. wide. The guard rail at the top (*A* in the views) is secured to the rail of the main bridge by a single piece of 3/8x1½-in. steel (marked *C*) fastened with a 5/8-in. bolt.

Now the peculiar feature of this bridge to which the writer's attention was called is this: The 5/8-in. bolt referred to (marked *B*) is at all times warm, in fact so warm that the hand can remain in contact but for a moment. This phenomenon is known to almost everybody who has occasion to use the bridge and is shown to visitors as a curiosity.

When asked the probable cause of this heating, bypassers invariably stated that it was due to the vibra-



BRIDGE CONNECTING REPUBLIC IRON AND STEEL CO. OFFICE WITH MARKET ST. VIADUCT, YOUNGSTOWN

tion of the bridge, causing friction between the tightly drawn-up bolts and the rail. The hot bolt has also been featured in one of the local papers, and vibration was given as cause of the heating.

A little thought will make it readily apparent that this could not be the cause. A bolt of that size could not continue to maintain such a tight contact as would be necessary to generate through friction such great heat as is present. I therefore concluded that the only other cause of the heating would be stray currents from the railway tracks crossing the bridge. Not having any means at hand at the time for determining this, I decided to do it at the first opportunity. Having occasion to visit Youngstown a week later, I came prepared with a coarse file and low-reading portable voltmeter. After cleaning the bolt head with the file and filing a clean spot on the ⅜x1½-in. bar and applying the voltmeter leads, a deflection of 1 volt was read. This varied from 0.8 to 1.2 volts, the highest reading being secured when trolley cars were passing at that point.

Lack of time did not permit me to make any more extensive tests to determine the amount of current flowing through the ⅜x1½-in. bar, which undoubtedly was considerable, judging from the amount of heat developed in it. A letter received Dec. 4, 1915, states that the bolt is still hot. Any further information that readers in Youngstown may be able to furnish regarding this would undoubtedly be of interest.

Cleveland, Ohio, Dec. 16, 1915. P. JUSTUS.

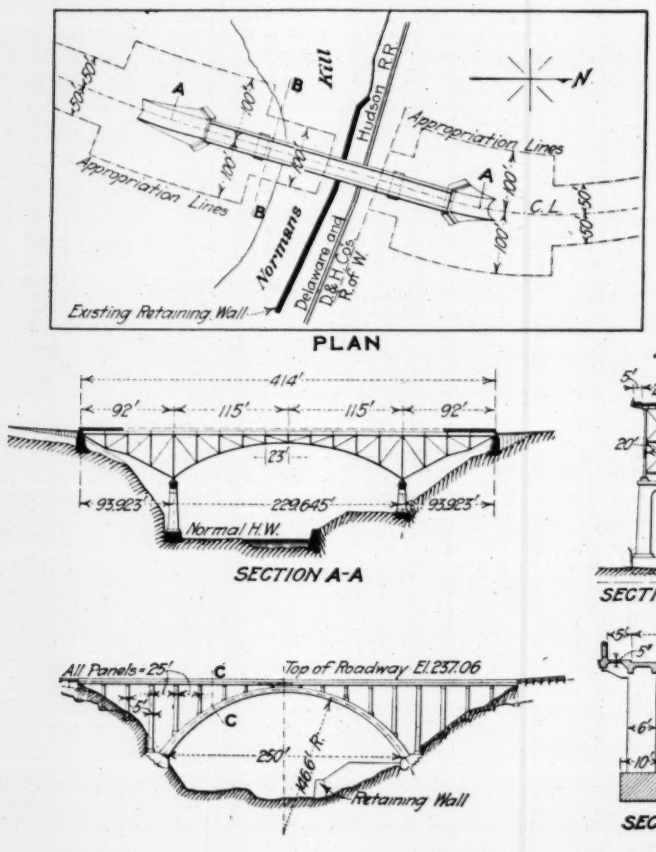


FIG. 1. STEEL AND CONCRETE ARCH DESIGN FOR NORMANSKILL VIADUCT

Normanskill Viaduct; A Second Popolopen Case

Sir—A steel highway bridge, or viaduct, of pleasing design has just been completed near Albany, N. Y., to carry a boulevard across Normanskill Creek, which at the site of this structure traverses a beautiful gorge on its way to the Hudson River. The structure and topography of its site are quite similar to the Popolopen viaduct and gorge shown in your issue of Oct. 28, 1915, and commented upon in your issues of Nov. 4 and 25, 1915. The whole case of the Normanskill viaduct resembles the Popolopen in several ways.

The writer, in February, 1914, as Supervising Engineer, was required to have designs prepared for a bridge over the Normanskill gorge. It was fully realized that a reinforced-concrete arch was the best, and in the long run the most economical, type for the Normanskill site, so an outline design for such a structure (shown in Fig. 1), together with three designs for steel structures, was submitted to the then State Engineer, J. A. Bensel. The total cost of the steel structure was $65,200. The estimated cost of the reinforced-concrete structure was about 17% more; while this difference is not a great sum, lack of funds may have precluded the acceptance of the reinforced-concrete design.

FIGS. 2, 3 AND 4. GENERAL VIEW AND DETAILS, NORMANSKILL VIADUCT

The structure built is shown in Fig. 2. It is a steel cantilever with a curved lower chord, and it provides a highway 25 ft. in width flanked by two sidewalks each 5 ft. wide. The deck, or floor, is of reinforced concrete, affording permanent protection to the structural-steel floor beams and much of the supporting metal of the entire structure. The highway loads assumed were two 15-ton motor trucks, or 100 lb. per sq.ft. of roadway; 80 lb. per sq.ft. was the assumed load on the sidewalks.

W. H. YATES.

52 Wall St., New York City, Dec. 6, 1915.

Railway-Track Maintenance

Sir—In your issue of Dec. 9 a communication signed "Railway" states that no track force can maintain good track where track is composed of defective material. It is admitted that old and decayed track is an evil, and one which it would probably be difficult to eliminate entirely. However, such a condition can be ameliorated when there is an adequate track force, and it is aggravated by a lack of such force.

It has been the writer's observation in the course of practical experience in railway-maintenance work that there are times when new track material is on hand with no labor to insert it in the track, on account of a reduction in force. Ballast has lain on the ties, ties have been stacked on the right-of-way and even new rail and fastenings distributed for months before the forces were increased sufficiently to place the material in the track.

If a minimum track force based, say, on the track-mile be maintained and never decreased in size, our railways would be safer and more comfortable means of transportation.

G. F. SCHLESINGER.

Ohio State University, Columbus, Ohio, Dec. 15, 1915.

NOTES AND QUERIES

Heavy Nickel Plate Girders—Several errors in the article "Record-Breaking Plate Girders for Nickel Plate R.R.," Dec. 9, 1915, p. 1105, should be corrected as follows: In line 3, "four-track" should read "fifteen-track." In line 5, the reference should be to Nov. 4, p. 888. In line 15, "130½ tons" should read "113 tons." In line 17, the Boston & Albany R.R. should be mentioned instead of the New Haven.

Problem in Municipal Accounting—Are paved streets, sidewalks, and bridges proper items to insert in making up a municipal asset and liability sheet? This question is raised by M. J. Guyton, Clerk of the Light and Water Commission of Dublin, Ga. Mr. Guyton is also in a quandary as to whether the fact that the city paid for only one-third of the street pavements and sidewalks and the property owners paid for two-thirds should make any difference in the amount of the entry. He also asks whether unpaved streets are properly listed as a municipal asset and if so, what rule is followed in ascertaining their valuation.

The Use of Streets for Public Markets has met with serious objections from Gus H. Hanna, Commissioner of Street Cleaning of Cleveland, Ohio. In his paper before the recent Worcester Road Congress, Mr. Hanna said: "The greatest source of expense in Cleveland has come not from those who use the street for traffic, but from those who use it as a place of business. A few hundred square feet near a certain street corner cost our department $10,000 to keep clean during the past year. It is the location of a curb market, supposedly a farmers' market, but really the resort of professional hucksters who dispose of provisions that have often become shopworn in adjacent market houses before finding their way to the curb. It would be a small return for the privilege of doing business in the street to require these hucksters to keep their surroundings clean at their own expense, on pain of arrest or forfeiture of their priveleges. My annual report recommends that some method be found of ridding the city of this form of imposition."

General Goethals' Report on the Panama Canal

The annual report of Gen. George W. Goethals, Governor of the Panama Canal, just issued, shows that the total amount which has been expended for the canal, including the balance of appropriations still on hand and available for work now in progress, is $357,456,000. From this total cost there should be deducted receipts from the sale of construction material and equipment, and the value of buildings and plants transferred to the army and the Alaskan Railway Commission without charge, also payments to be made by the Republic of Panama for municipal work in the cities of Panama and Colon. In comparing this figure with the estimate of total cost made in 1908, it should be remembered that the expenditures include a dry dock, two coaling stations and terminal piers which were not provided for in that estimate, and also a payment of over $1,000,000 for employees' injuries, made necessary by laws passed since the estimate was made.

SLIDES IN THE CANAL

The report is dated Aug. 2, 1915, so that it does not cover work on the slides which have since taken place. It is evident, however, that the eventual movement was foreseen of the material which has since slid into the channel. The report states that near Culebra in June, 1915, "the general movement of the bank from Station 1771 to 1796 was noticeable, and it was estimated that 5,000,000 cu.yd. of material were in motion on June 30 on the west side. It is estimated that about 4,000,000 cu.yd. will have to be removed from the east side."

There has been some question among engineers as to why steam shovels have not been employed to supplement the work of the dredges in removing the slides. In this connection the following is of interest:

> An examination of the west bank made subsequent to the break of Oct. 14, 1914, developed the existence of cracks on both banks and the question of resuming steam-shovel operations on both banks was considered seriously but abandoned because the amount of work that could be accomplished by the shovels would be relatively small and the cost excessive. The breaking up of the banks has proceeded so rapidly that this conclusion has been fully justified.

In this connection also the statement as to the relative cost of steam-shovel and dredge excavation is of interest. During the year there was removed by dredging in maintaining the channels through Gaillard cut 4,710,000 cu.yd., at an average division cost of 34.67c. per cu.yd. The average division cost of steam-shovel excavation in that section to June 30, 1914, was 70.66c. per cu.yd. Had it been attempted to do steam-shovel work on the present slides, however, the cost would have been much greater than the sum above stated, due to the large expense of maintaining tracks on the slides.

There is still a good deal of misunderstanding as to the material which is sliding into the canal, many still supposing it to be earth and clay. The report states, however, that of the 6,671,000 cu.yd. removed from the Gaillard cut during the year, 5,559,000 cu.yd. was rock and the balance earth. As showing how this material behaves, the following quotation is of interest:

> On the night of Oct. 14, 1914, a break occurred at East Culebra which completely closed the channel. The entire east bank for a distance of about 2,100 ft., extending back for a distance of about 1,000 ft. from the center line of the canal, settled vertically and the lower strata squeezed into the cut, so that at some points there were only 9 in. of water where prior to the movement there were 45 ft.

This huge slide closed the canal, however, for only six days, when a channel was dredged through it sufficient for the passage of ships. The slide continued to move, however, and the canal was again closed for five days from Oct. 31 to Nov. 4. Four months later it was again closed six days, from Mar. 4 to Mar. 10.

Digging away of the slides is by no means the only work in charge of the dredging division, of which W. G. Comber is the head. At the Pacific end, 542,000 cu.yd. was dredged between deep water in Panama Bay and the Pacific entrance, and about 2,800,000 cu.yd. was dredged from the Balboa inner harbor. At the Atlantic terminal 759,000 cu.yd. was dredged from the Cristobal approach pier channel, and 265,000 cu.yd. of coral rock was excavated.

Water-Supply of the Canal

The water-supply of the Panama Canal was a fruitful subject for argument in the early days of the enterprise. One of the stock arguments of the advocates of the sea-level canal was that the Chagres River would not supply enough water to keep the canal in operation during the dry season. The experience of the dry season of 1915 indicated, however, that the need for anxiety on that score is remote, although it is true that the rainfall during the dry season a year ago was unusually heavy. The rainfall on the surface of the lake during the dry season practically equaled the loss by evaporation. Instead of being obliged to draw down the level of the lake during the dry season to supply water for lockages, enough water was wasted over the spillway during the freshets of Feb. 9, 10 and 11 and Apr. 3 and 4 alone to have raised the lake level 2.95 ft. The water-supply situation of the dry season of 1915 may be presented in tabular form as follows:

	Million Cu.Ft.
Total yield of Gatun Lake watershed	43,924
Evaporation from lake surface	9,427
Used for hydro-electric power	8,312
Used in making 983 lockages and tests	3,724
Used for municipal purposes and by suction dredges	279
Leakage	175
Wasted at the spillway	23,264

The New Dry Dock at Balboa

Dry dock No. 1 is nearly ready for use. This dock is 110 ft. in width at the entrance and 1,044 ft. long from the point of the miter sill to the head. The miter and caisson sills are 39.5 ft. below mean sea level. The dock will contain with the tide at mean sea level 5,265,000 cu.ft. of water. The dock is excavated in rock. The floor is merely a smooth skin of concrete laid over the rock floor after the excavation. The side walls are of gravity section and are connected by a semicircular head. The side walls are reinforced at the back with 70-lb. rails. To prevent hydrostatic pressure accumulating behind the walls, a drain is formed at El. —27.5 ft. on the back of each wall communicating with the interior of the dock by four 8-in. pipes. At the entrance of the dock are a pair of steel miter gates that are identical with the Panama lock gates, except that the bearing surfaces at the miter and quoin ends are of greenheart instead of nickel steel. According to the *Canal Record* of Dec. 8, 1915, the first gate was hung on Nov. 27, and the second gate will probably be hung before the end of the year. In front of the miter gates is a seat for the floating caisson that is used for closing the lock entrance when repairs to the lock gates are necessary. A second dry dock is planned but is not to be built until necessary.

The average time for locking vessels through the three locks at Gatun is 65 min.; through the single lock at Pedro Miguel, 25 min.; and through the two locks at Miraflores, 45 min. Four towing locomotives are generally attached to the ships, though eight are used on the largest battleship. Tandem lockages with two ships in the same chamber at the same time have been made but are limited by the number of towing locomotives available. Parallel lockages are made only in emergencies.

The floating caisson was used for unwatering the lock at Miraflores to clean and paint the submerged machinery. Inspection revealed that galvanic action was taking place in the salt water between metals of different kinds. Tests are being made with preservative coatings having insulating properties which it is hoped will stop the corrosion. The rising stem valves were coated with bitumastic enamel, and a contract was made with the American Bitumastic Enamel Co. to paint all the submerged parts of the lock-gate structures and maintain them in first-class condition under a five-year guarantee.

A Big Blunder as to Vessel Measurement

After the canal had been in operation for some months, protest was made that the rules for vessel measurement adopted by presidential proclamation were not in accordance with the law and demand was made that the tolls collected in excess of legal authority should be refunded. The entire blame for this unfortunate situation is laid by General Goethals on Dr. Emory R. Johnson. Doctor Johnson was specially employed to draft the rules for Panama Canal measurement and to keep in touch with the legislative committees, which framed the law. The rules he drafted were supposed to conform strictly to the law as enacted. It later developed, however, that these rules have no legal standing and that, according to the letter of the law as enacted, the net registered tonnage of the vessel must apply. General Goethals says:

> Much to our chagrin and humiliation we learned that Dr. Johnson was aware of the discrepancy, notwithstanding which he presented his rules of measurement and rates of tolls for promulgation to the shipping interests of the world. Confusion has been the order of the day in consequence.

The greatest difficulty is not the refund of an illegal charge, but that, according to the law as it now stands, vessels must be assessed on their net registered tonnage, which may be varied by rulings and decisions of the Commissioner of Navigation. These rules as now applied cause discrimination in some cases against American ships in favor of foreign ships. It is roughly estimated that the total refunds necessary will amount to $400,000. These refunds cannot be made, however, notwithstanding the fact that the money was illegally collected, until Congress makes an appropriation authorizing them.

The total cost of operation and maintenance of the canal during the year was $4,112,000, while the tolls collected amounted to $4,343,000. When the above refunds are made, the operating expenses will exceed the toll receipts.

⁂

A Lighthouse on Navassa Island is under construction by the United States Bureau of Lighthouses. The island is an isolated rock with sheer cliffs about 200 ft. high, lying between Cuba and Hayti and in the track of vessels sailing between North Atlantic ports and the Panama Canal. A round tower 150 ft. high, of reinforced concrete, is being built on top of the rock, bringing the focal plane of the lens 402 ft. above water level. The light will have 56,000 cp., giving a double white flash every 30 sec. It will be visible for 27 nautical miles.

Eye-Bar Failure at Low Stress Causes Bridge Collapse

SYNOPSIS—Collapse of a steel bridge in Spokane, Wash., by the breaking of two lower-chord eye-bars has been investigated by a board of four local engineers and is charged to "granulation" of the metal. The stress in the metal is estimated at about 7,800 lb. per sq.in. Hugh L. Cooper, who designed the bridge, states that the bars were bent in an accident in 1894 and were straightened by local heating.

Breaking of the eye-bar bottom chord caused the collapse of the steel-truss main span of the Division St. bridge in Spokane, Wash., on Dec. 18, and dropped a street car into the Spokane River. Five men were drowned. Another car was left hanging by one truck on a pier. The fractures of the eye-bars were found to be crystalline.

The bridge has a 60-ft. south span and a 180-ft. main span, with trestle to the north. The main span was built in 1892 by the San Francisco Bridge Co.; Hugh L. Cooper, then District Engineer for the company, designed and erected the bridge. It was fabricated by the Edge Moor Bridge Works.

Data of the Span and Its Failure

The 180-ft. span was a through-truss structure of 8 22½-ft. panels, with curved top chords. It had a 40-ft. roadway and two sidewalks about 10 ft. wide. It was designed to carry a live-load of 4,800 lb. per lin.ft. This heavy loading made an unusually strong bridge, probably more than strong enough to carry present-day street cars without exceeding the original unit stress (15,000 lb.). The dead-load (originally about 2,600 lb. per lin. ft.) has been increased somewhat in recent years by added piping and by changes in the floor, probably 10 to 15%. This extra load is not significant. The details of the span were well ahead of contemporary practice. The floor-beams were riveted to posts and hangers.

The point of failure was the north end panel of the lower chord of the east truss, a member consisting of two 5x1½-in. eye-bars. Both bars broke near midlength, with clean square breaks. The bridge turned over in upstream direction and fell into 20 ft. of water. The piers (individual pedestals) were not damaged, though the shoes kicked off.

Board of Engineers Finds "Granulation"

A board of local engineers investigated the wreck at the request of City Engineer Morton Macartney and D. L. Huntington of the Washington Water Power Co. (operating the street railway).

The board, composed of S. H. Hedges, Bertram D. Dean, Frank M. Cortelyou and F. W. Crocker, reported as follows:

At your request the undersigned have today made a preliminary investigation of the failure of the Division St. bridge.

We examined at the city hall sections from two eye-bars which came from the end panel of the north end and east side of the bridge. We were also shown the original strain and section sheet from which this structure was built. We then went to the site of the bridge and investigated the structure as it now lies, partly in the water and partly on the bank. From all the above we unanimously arrived at the following conclusions:

It is our opinion that the failure was due to the simultaneous breaking of the bottom chord bars of the first panel of the north end of the east truss because of granulation.

There was no excessive load on the bridge at the time it collapsed, and in our opinion it is unlikely that there has ever been put upon this bridge a total load, including wood-block pavement, water pipes, street cars and other traffic, in excess of that for which the structure was designed.

We are reliably informed that the bridge was designed by Hugh L. Cooper, one of the foremost consulting engineers of the United States, and that the same was fabricated by the Edge Moor Bridge Works, one of the best bridge companies in the country.

We noticed breaks in the steelwork other than the ones above mentioned, caused by the falling of the bridge, and these show silky fractures indicating first-class material, and we are of the opinion that had this structure been carefully examined by experts the day before its failure they would have reported the same entirely safe for the duty it was fulfilling, and that there was no reason to expect defects of any character.

Prior Injury of the Chord Bars

An important piece of information is added by Hugh L. Cooper, the designer of the bridge. He says that the chord bars which broke were injured in 1894 and later were repaired in a way that probably left them permanently weakened. Mr. Cooper made the following statement to *Engineering News* of this phase of the matter:

I visited the scene of the wreck two days after it occurred. It is apparent that the cause of the wreck was the pulling apart of both of the bottom-chord eye-bars of the east truss in the panel next the abutment. These bars were 5x1½ in. in cross-section. The breaks are opposite one another and show the same general characteristics—a very clean break all the way across, practically no fibrous condition of the metal, the entire surface looking highly crystallized.

At the time of the accident it is probable that these bars were being stressed (if they were equally loaded) not to exceed 7,800 lb. per sq.in.

From the information I gathered in Spokane it is apparent that in 1894, at a time of unusual high water, a heavy Howe-truss railway bridge was washed from its foundations and floated downstream and struck the end bottom chords of this span a heavy blow, severely distorting both of the bars that broke. The Howe-truss span, after colliding with the upstream bars, was forced down into the water and came up with a new blow, striking the downstream chord bars opposite the bars that parted, breaking one of these bars entirely. My information is to the effect that when the city authorities came to repair the structure after this accident, the bar that broke entirely in two downstream was replaced by a new bar and the upstream bars were taken out and locally heated, straightened and reinserted in the structure.

My own thought of the explanation in the light of the information I have is that the blow received by the upstream bars was sufficient to stretch them beyond their elastic limit, and in addition the straightening by local heating without reannealing produced conditions that were also unsafe. The bars should never have been allowed to continue in service.

There is some conflict of opinion as to just what point in the upstream chord was first struck by the Howe truss.

One of the incidents confirming my personal view of the cause of the accident is found in the fact that the upstream chord bar of the two that broke shows a marked bruise that might have been caused by a screw end of one of the vertical rods in the Howe-truss span. This bruise is located within three inches of the break and is in the center of the bar.

City Engineer's Doubts Accident Theory

Doubt is thrown on the accident theory by Morton Macartney, city engineer, in the following interview, which appeared in the Spokane dailies:

City Bridge Foreman John McCormick, who then was in the employ of the city, tells me that it was another panel of

the bridge that was bent in the 1894 flood. He says the bent portion still shows. It is true that blows of a hammer showed on the part of the bridge that broke, a condition apparent after the paint was off, but how the blows came there is more than I can tell. So far I have found no city record telling that this member was bent and repaired at that time.

In rejoinder to this, Mr. Cooper reasserts his information that the eye-bars struck in the 1894 accident were the particular ones that broke in the present collapse.

A further fact possibly bearing on the accident is that at the fracture one bar showed a small flaw like a slag inclusion, making a slight indentation from one side face.

The American Bridge Co., successor of Edge Moor Bridge Works, has not been able to find a record of the character of the metal in the bridge. That the metal is steel is well established; a strength of 60,000 lb. per sq.in. was specified. The eye-bars were press-upset and were then annealed, according to the Edge Moor process, which has since come into general use.

Eye-bars for a railway bridge also designed by Mr. Cooper were made in the same shop at the time the Division St. eye-bars were made, and this bridge is still in service, not far from Spokane.

Garbage-Disposal Bids Invited by New York City

OFFICIAL STATEMENT

The existing contracts for the disposal of garbage, ashes and rubbish in New York City expire Jan. 1, 1917, though the city has the privilege of renewing these contracts for a further period of two years. For the purpose of determining the advisability of such renewal, new contracts will be advertised. Bids will be received Jan. 18, 1916, on two forms of contract for the disposal of garbage.

Form No. 1 provides for the disposal of garbage at private plants located on private lands for a period of five years. The feature of this contract requires the contractor to pay the city an amount per annum for the privilege of disposing of garbage. The total amount of garbage delivered in 1914 was 412,200 cartloads of 2 cu.yd. capacity, weighing approximately 2,330 lb. per cartload. Plans and specifications are to accompany the bid, showing the general outline of plant and methods of treatment proposed for use by the contractor. Stringent provisions cover design of plant and equipment so as to obviate nuisance due to the escape of odorous gases or other obnoxious wastes.

Form No. 2 differs from the preceding contract in that the plant will be erected on a site provided by the city. The contract term is limited by law to a period of five years, and the city agrees to purchase the plant on the termination of the contract, at a price to be fixed in the bid or estimate by the contractor. The contract likewise requires the bidders to submit general plans and a guaranteed maximum estimated cost for the construction of the plant and appurtenances. The methods proposed to be used and the design of apparatus are subject to approval by the Commissioner of Street Cleaning, and definite guarantees covering nuisances and odors are required, as in Form No. 1.

Under the conditions noted in Form No. 1 the contractor would naturally amortize his plant during the five-year term of contract, while in Form No. 2 the contractor finances the undertaking and is required to make any profits out of the operation of the plant during the term of the contract, as the plant is to be built at actual cost under the supervision of the city.

On account of the difficulty of securing city funds for the construction of a municipal plant at the present time, the authorities decided to attempt to interest private capital in financing the undertaking under Form No. 2, as there is but a slight risk in the investment on account of the city's agreement to purchase the plant, it would seem as if this would be the more attractive proposal to contractors.

Last year the Commissioner of Street Cleaning attempted to secure state legislation which would enable the city to make a 15-yr. profit-sharing contract for the disposal of all classes of wastes. The bill passed both houses of the legislature, but was vetoed by the governor. Thus the city has available only two means of disposing of its waste: First, by contract for a period not to exceed five years; and second, by municipal construction and operation of the disposal works.

J. T. Fetherston is Commissioner of Street Cleaning of New York City.

Locomotives for Railways of Sharp Curvature

Anatole Mallet, of Paris, France, the inventor of the Mallet articulated locomotive, was the author of a paper presented before the Railway Section of the American Society of Mechanical Engineers at the recent annual meeting giving a historical review of the numerous locomotives which have been designed to traverse lines of sharp curvature.

The best-known locomotives of this type in use in the United States are the geared locomotives of the Climax, Shay and Heisler systems. These are in extensive use on logging roads, where steep grades and sharp curvature are generally essential to economical construction. Some other locomotives of this type which have been built in the United States are the Cowles locomotive, described in *Engineering News* of Feb. 9, 1893, and the Johnstone locomotive, designed by a former superintendent of motive power of one of the Mexican railways and adopted on several locomotives built in the United States for service there.

The interest in this problem was much greater in the early days of the railway era, when it was supposed to be difficult or impossible to run a locomotive with several coupled pairs of drivers around any but the easiest curves. There is, however, at the present time, constant pressure on the railway mechanical departments to build as heavy locomotives with as many coupled drivers as can possibly be gotten over the track, and there is no doubt that a considerable outlay for track repairs is made necessary by the action on curves of heavy locomotives of long wheel base.

In the discussion upon Mr. Mallet's paper, Mr. Woodward, assistant chief engineer of the American Locomotive Co., stated that his company has recently built a new type of locomotive in which provision is made for lateral movement in the end driving axles (the locomotive is of the 2-10-2 class), to enable it to pass freely around sharp curves without cramping. The locomotive has a rigid wheel base 22 ft. 6 in. long, yet it has been run around yard curves of 20° without injury to the track.

News of the Engineering World

Chattanooga Bridge Falsework Swept Away by Flood

Unexpected high water in the Tennessee River caused the loss of one coffer-dam and the centering of one of the arches of the Market St. bridge now under construction at Chattanooga, Tenn., on Dec. 20. The bridge is a series of reinforced-concrete arches, 165 ft. and 180 ft. in span, with a middle double-leaf bascule span of 300 ft. On the Chattanooga side of the river, arches 1 and 2 were practically completed and the centering under arch 3 (180-ft. span) had just been placed, together with most of the reinforcement for the arch ring. Pier 4 (piers 3 and 4 are the bascule piers) was under construction inside of a steel sheet-pile coffer-dam.

The centering and falsework for arch 3 were completed Dec. 18, and it was planned to start pouring the next day. At that time the river was at a 17-ft. stage; but the Weather Bureau sent in word that a flood stage was due, and the entire bridge force was put to work cleaning out the driftwood. Late Saturday night, however, a large tree broke through the pile footings of the centering. With a pressure of the driftwood 100 ft. behind it the falsework, which had already buckled and cracked, collapsed on Sunday morning at a 29-ft. stage. Immediately afteward a tug was sent after it and captured the débris 10 mi. down the river and tied it to the bank. It is believed that $1,000 worth of steel can be salvaged.

In addition to the loss of the centering the coffer-dam for pier 4 was washed out earlier in the day. This is the third time that this coffer-dam has been lost.

The bridge is being built by the Vang Construction Co., of Cumberland, Md., for the Tennessee River Bridge Commission. It was designed by B. H. Davis, of New York. Ellis Soper is construction engineer.

The foundation work for the bridge has been troublesome from the beginning. Preliminary borings placed the rock bottom too high, and the originally intended open coffer-dam method has had to be replaced by pneumatic caissons in two of the piers.

One Span of Memphis Bridge Falsework Washed Out

A part of the falsework of the new cantilever bridge across the Mississippi River near Memphis, Tenn., was washed out in the high water of Dec. 23, 1915. At the request of *Engineering News* the following statement was made by Thomas Earle, Superintendent of the Bridge and Construction Department of the Pennsylvania Steel Co., which is fabricating and erecting the bridge:

"On the night of Dec. 23, 1915, fifteen bents of the falsework which had been placed in the Mississippi River for the erection of the bridge of the Arkansas & Memphis Railway Bridge and Terminal Co., near Memphis, Tenn., were washed out by high water. These bents were to have supported the semisuspended span between piers 3 and 4. The falsework consisted on an average of 32 piles per bent, the piles ranging from 84 to 94 ft. in length. On these piles rested the timber falsework, consisting of 12x12-in. legs about 65 ft. high. The river was at a height of 28 ft. at the time of the washout and full of heavy drift.

"In addition to the falsework a small amount of erection equipment was lost, including some stringers of the permanent construction which were being used temporarily in the falsework. No other permanent steel was lost.

"The bridge is to carry railway and highway traffic, and starting at the Memphis side will consist of the following spans (see *Engineering News*, Nov. 6, 1913, p. 930): East abutment to pier 1, anchor arm, 186 ft. 3¾ in.; pier 1 to pier 2, 790-ft. 5¼-in. span comprising a cantilever arm of 186 ft. 3¾ in., a suspended span of 417 ft. 9¾ in. and a cantilever arm of 186 ft. 3¾ in.; pier 2 to pier 3, fixed span, 621 ft. long; pier 3 to pier 4, a 604-ft. 1½-in. span comprising a cantilever arm of 186 ft. 3¾ in. and a semisuspended span of 417 ft. 9¾ in.; pier 4 to pier 5, deck span, 345 ft."

Subsequent to the receipt of the foregoing, the following local report of the collapse was received:

"Following an unusual rise in the Mississippi River to about 27 ft. on the Memphis gage, and the piling of drift against it, 14 bents of falsework between piers 3 and 4 of the new Memphis bridge went out at 11:30 p.m., Dec. 23, leaving five bents next to pier 3 standing. On Saturday, Dec. 25, about 3:30 a.m., the fifth bent west of pier 3 went out. A small gantry traveler, the falsework derrick and four hoisting engines with their rigging went with the falsework, as did 120 roadway stringers being used as stringers for the traveler tracks. The remaining bents of this span carry the bottom chord and floor system of the cantilever arm, leaving two panels of bottom chord projecting. Bolts at the splice at panel-point 12 were removed, so if the remaining bents go out, it is expected the break in the steel will occur at this point and not greatly damage the end of the fixed span at pier 3.

"All pins in span 2-3 (621 ft. fixed span) were in by 2 p.m., Dec. 22, and the remaining portal bracing and top laterals by noon the next day. Lowering of this span was begun at once and proceeded until dark under extra force; very little weight then remained on the falsework. All joints are closed and well bolted, and it is believed this span will hold even though the falsework under it goes out. The drift piled up for a distance of about 60 ft. upstream in spite of all attempts to prevent it. The falsework for span 3-4 was in 60 ft. of water at the time of failure, with 30-ft. penetration, while that of span 2-3 was in 75 ft. of water with 35-ft. penetration.

"The river stage at 7 a.m., Dec. 28, is about 31 ft. A stage of 32 ft. is expected."

The Memphis bridge was designed by Ralph Modjeski, of the firm of Modjeski & Angier, Chicago, and is being erected under his supervision.

FIG. 1. LOOKING SOUTH; EXCAVATION FOR PINE HILL CONCRETE DAM

Showing progress of work on the construction of a $700,000 reservoir, using entirely municipal day labor and municipally owned equipment. Text describing the work on opposite page

FIG. 2. LOOKING NORTH; EXCAVATION FOR PINE HILL DAM, WORCESTER, MASS.

Excavation to bedrock is completed in the foreground. The distance across is about 850 ft. All rock excavation was done with small compressed-air hand drills

Pine Hill Dam for Worcester Additional Water-Supply

The city of Worcester, Mass., has had under construction for over a year a cyclopean masonry dam, which will rank among the largest in New England. Construction work is proceeding rather slowly because the city is doing all operations by municipal labor and with small annual appropriations; no construction contracts have been, nor are to be, let. This alone will make the work of much interest to municipal engineers. The estimated cost is about $700,000.

The dam is near the present Holden reservoirs of the city water-supply. It will be 108 ft. high from foundation to top, 80 ft. wide at the base and 17 ft. wide at the top. The top is 850 ft. long. It dams the narrow outlet of a natural basin of rather remarkable topography.

Solid rock underlies the whole dam site. The top strata of soil, soft and disintegrated rock are excavated by derrick skips and conveyed by narrow-gage railways to a temporary spoil bank. The material will be used to grade below the completed dam. Rock excavation is accomplished by two Jackhamer compressed-air drills. A small WK-3 gasoline-engine-driven Sullivan compressor of 20 hp. is used to supply air. Large pieces of rock are piled within reach of the derrick booms to be used later as "plums" in the dam masonry. Steam tripod drills are used to make test holes; some of these are 50 ft. deep.

Rock excavated near the dam site will be used for concrete aggregates. There is no sand within reasonable distance, so a pair of 14x20-in. sand rolls have been installed, and the rock will be used to make sand as well as the coarser concrete aggregate. All the material is handled by derricks, a cableway and narrow-gage railways.

Concrete is to be mixed with a Hains gravity mixer. The sand and stone bins and the cement house are at the north end of the dam. Narrow-gage railway cars will carry these materials to a chute, which will convey them to the hopper platform of the concrete mixer.

All the plant and equipment have been purchased by the city and erected by day labor under the supervision of the City Engineer, F. A. McClure. The city has even gone so far as to build its own railway cars and derricks. At the opening of another season Mr. McClure expects to have 250 men employed. As yet the excavation has not been completed.

Terre Haute Water Rates Cut

The meter rates of the Terre Haute Water Co. have been ordered reduced to the advantage of small consumers, the cost of service connections has been put upon the company, the fire-hydrant rate has been confirmed, but the company is not compelled to install so many hydrants on extensions as heretofore. These and other rulings are embodied in an order of the Indiana Public Service Commission, dated Dec. 18, 1915, as a result of a petition filed Oct. 16, 1913, by the Commercial Club of Terre Haute.

The meter rates are on a sliding scale. For the first 30,000 gal. a month the new rate will be 20c. instead of 30c. per 1,000 gal. For successive additional quantities the rate falls until for all consumption of more than 3,000,000 gal. a month the unit rate is 4¼c.—a slight increase, as the old rate was 4½c. The minimum monthly charge for metered water is $0.60 for ⅝- and ¾-in. meters, $1 for 1-in., on up to $20 for 6-in. and over.

The minimum charge per month for private fire protection is 50% above the charges just given. All private fire-protection services must be metered.

The flat rate is $5 per kitchen faucet for a private family living in six rooms or less, where there is not more than one room rented nor more than two boarders. Additional charges are $3 each for a bath and water closet, $3.50 for one horse and $6 for sprinkling a 50-ft. lot.

The old fire-hydrant rental of $40 each per year stands, but the company need set only one hydrant per 500 ft. of extensions instead of one for each 355 ft. under the old rates.

The value of the property of the company is fixed by the commission at $1,200,000, including $80,000 for going value. The company may earn 6½% on this valuation after allowing for maintenance, operation and 0.83% for depreciation.

The commission ordered the company to pay the state $1,386 for the expense of the rate adjustment and cut from $12,500 to $9,000 the sum the company wished to charge to current expenses on account of the valuation proceedings, holding that the $3,500 must come out of dividends.

Dow R. Gwinn, President of the Terre Haute Water Co., is given credit for getting remarkably good results from a filtration plant now out of date. On this subject the commission says, "We believe the most valuable part of the filtration system is the gray matter of the president of the water company."

New Rules of Practice of the United States Patent Office have been approved by the Secretary of the Interior and are to take effect on Jan. 1. The new rules have been framed by a committee of which R. F. Whitehead, Assistant Commissioner of Patents, is chairman, and before final adoption were submitted for criticism to patent experts and patent attorneys throughout the country.

The Alaskan Engineering Commission, in charge of the construction of the Government railway in Alaska, received over 38,000 applications for positions before it left for Alaska last spring, according to a statement by Secretary Lane in his annual report. Most of those applying for positions, however, were not men out of work, but were men holding positions with railway companies, banks, stores, etc.

Derailment Wrecked Bridge—The steel span of a bridge of the Nashville, Chattanooga & St. Louis Ry., about 25 mi west of Nashville, was destroyed on Dec. 13, when part of a freight train was derailed. The derailment was followed by the ignition of the contents of an oil-tank car, and four tank cars and nine cars of merchandise burned. The span was 96 ft. long and was single-track. A trestle approach on concrete bents was burned completely, with no damage to the bents, the repair crew being able to replace the wooden stringers immediately. The bridge was replaced by a temporary structure in four days, but after one train had run over it three bents were carried away by high water. New bents were erected immediately, and traffic was resumed in a few hours. It is expected that a new steel bridge will be in place permanently by Jan. 1.

The Street Railways of Melbourne, Australia, are operated by the Melbourne Tramway and Omnibus Co., whose franchise expires on July 1, 1916. The railways were built about 30 years ago under a coöperative agreement between the city and the railway company. The city furnished the capital for building the lines (about $8,000,000), and the company furnished the rolling stock, car barns and general offices. The company has paid an annual rental to the city of about $200,000 per annum. The city has planned to take over the lines for municipal operation at the expiration of the franchise, but the Provincial Government has introduced a bill under which it would control and operate the line in connection with a plan for a greater Melbourne consolidation.

The lines are still operated by cable traction, and their rebuilding is likely to be undertaken when the question of control at the expiration of the franchise is settled.

PERSONALS

Prof. Arlo Bates, Professor of English in the Massachusetts Institute of Technology, has retired, under the pension system of the Carnegie Foundation, after 22 yr. of service.

Mr. J. W. Frazier, who has been a draftsman in District No. 4 of the Pennsylvania State Highway Department, has been promoted to the superintendency of highways of Potter County.

Mr. C. H. Orndorf, draftsman attached to District No. 2 of the Pennsylvania State Highway Department, at Harrisburg, has been promoted to be Superintendent of Highways of Clinton County.

Mr. H. S. Wood, Chief of Construction in District No. 15 of the Pennsylvania State Highway Department, has been promoted to be Superintendent of Highways of McKean County, with headquarters at Warren.

Prof. Harold A. Everett, of the Department of Naval Architecture of the Massachusetts Institute of Technology, has resigned to take a position in the Post Graduate School of the United States Naval Academy at Annapolis.

Mr. Henry C. Beckwith, M. Am. Soc. M. E., formerly Chicago Manager of the T. L. Smith Co., is now Treasurer and General Manager of the Byers Machine Co., manufacturers of hoisting and excavating machinery at Ravenna, Ohio.

Mr. William B. Goentner, former Assistant Engineer of the New York City Department of Water-Supply, Gas and Electricity in charge of design of distribution systems, is now Superintendent of the McCabe Chemical Co., Charlotte, N. C.

Mr. W. S. Hanmaker, County Superintendent of Highways of Cumberland County, has been promoted to be Acting Assistant Engineer in charge of District No. 9 of the Pennsylvania State Highway Department, with headquarters at Chambersburg.

Mr. D. A. McCloskey, Acting Chief of Construction of District No. 11 of the Pennsylvania State Highway Department, has been promoted to be Superintendent of Highways of Huntingdon County, taking the place of T. J. Strickler, who recently resigned.

Mr. F. E. Winter, Resident Engineer in charge of inspection at Warren, of the Pennsylvania State Highway Department, has been promoted to the post of Acting Assistant Engineer in the newly created District No. 8, including Clearfield, Indiana, Jefferson, Elk and Cameron counties.

Mr. E. R. Lewis, M. Am. Soc. C. E., Assistant to the General Manager of the Duluth, South Shore & Atlantic Ry. Co., with office at Duluth, Minn., will after Jan. 1 have charge of all matters pertaining to engineering, maintenance of way and structures and federal valuation of the company.

Mr. W. R. Wolfinger, who has been Assistant Engineer in charge of District No. 9 of the Pennsylvania State Highway Department, at Chambersburg, has been transferred to District No. 5, with headquarters at Allentown. He succeeds John T. Gephart, Jr., who will return to Harrisburg and resume his duties as Engineer of Construction.

Maj. R. E. Wood, Chief Quartermaster at Panama and Director of the Panama R.R., has joined the staff of the Barber Asphalt Paving Co. as Assistant to the President, with headquarters at Philadelphia. Major Wood graduated from West Point to 1900, was connected with the building of the canal from 1905 to 1915 and retired with the rank of major under the Panama Canal Act.

Mr. William E. Davis, Vice-President of the Cleveland Construction Co., has been appointed Public Utilities Engineer of Cleveland, Ohio, at an annual salary of $7,000. Mr. Davis will fill the combined positions now held by Lighting Commissioner F. W. Ballard, Assoc. Am. Inst. E. E., and Water Commissioner Charles F. Schulz. Commissioner Ballard receives $7,000, and Commissioner Schulz $5,000 a year.

Prof. William D. Pence, M. Am. Soc. C. E., has decided to sever his connection as Professor of Railway Engineering at the University of Wisconsin. He will be succeeded by Prof. L. F. Van Hagan, Assoc. M. Am. Soc. C. E., who has been promoted to the position of Associate Professor and placed in charge of the department. Professor Pence has been a member of the Interstate Commerce Commission Railway Valuation Board since its inception.

Mr. Gustav J. Requardt, Assoc. M. Am. Soc. C. E., will leave the employ of the Baltimore Sewerage Commission Jan. 1. Mr. Requardt has been with the commission since 1909, when he was a rodman on the location of structures at the sewage-disposal plant; since then he has been Assistant Engineer on the design of sewer and drains through the city, Assistant Division Engineer in charge of design and construction of new filters and Imhoff tanks and for the last year has been acting as Division Engineer in charge of operation and construction at the disposal plant. He expects to go into the private practice of civil and sanitary engineering.

Mr. A. K. Silvernail has been elected President of the newly organized Kimberly Construction Co., Mayro Building, Utica, N. Y. Mr. Silvernail is a graduate in civil engineering of the Carnegie Institute of Technology. Subsequent to his graduation he was engaged in the construction department of the New York Central and Lehigh Valley railroads and was in charge of construction of a large department-store building in Corpus Christi, Tex. In 1912 he went to Utica and has since that time had charge of the contruction of many of the public building in that city. He is at present Supervising Engineer on the Utica Homeopathic Hospital Building.

Mr. William F. Kelly and Mr. Charles B. Cooke, Jr., have formed a partnership with the firm name of Kelly, Cooke & Co., with offices in the Drexel Building, Philadelphia, Penn., to conduct a general practice in public-utility and industrial engineering. Mr. Kelly was for several years connected with the engineering staff of the Union Traction Co., of Philadelphia, and for the past 14 yr. has been a member of the staff of Ford, Bacon & Davis, acting as engineer in charge of several of their larger operations, including the construction and reconstruction of the Knoxville Railway and Light Co. and the Birmingham Railway, Light and Power Co. Mr. Cooke was formerly Assistant Commercial Engineer of the Westinghouse Machine Co., at East Pittsburgh, and for several years past has been on the staff of Ford, Bacon & Davis, during which time he specialized on financial engineering reports and had personal charge of a number of important rate developments and reports for public-utility companies. Both members of the firm are graduates of the University of Pennsylvania.

OBITUARY

Francis Winthrop Scarborough, M. Am. Soc. C. E., Consulting Engineer of Richmond, Va., died in New York City Dec. 24.

Henry Wick, Assoc. Am. Soc. M. E., President of the Elyria Iron and Steel Co., died at Youngstown, Ohio, Dec. 22. He was born in that city in 1846 and had been active for nearly 50 yr. in the iron and steel trade in Ohio. He was formerly President of the Ohio Steel Co. and the early Youngstown Rolling Mill Co.

George V. Sneden, Superintendent of Maintenance-of-Way of the New York & Long Branch R.R., and the oldest employee of the company in point of service, died at his home in Red Bank, N. J., Dec. 24. He was born in Fredericksburg, Va., in 1856 and studied civil engineering at Lehigh University. In 1874 he became a member of the engineering corps engaged in the construction of the road.

William Wilson Ramsey, of the Ramsey Engineering Co. Chicago, died at his home in that city Dec. 3. He was born in Chester County, Pennsylvania, and went to Chicago in 1878. He was formerly Manager of the Northwestern Expanded Metal Co., and was largely influential in promoting the present extensive use of metal lath. About 1893, when reinforced concrete began to be used for building construction, Mr. Ramsey organized the Expanded Metal Fireproofing Co., and since that time he had been actively connected with the design and construction of concrete for structural work.

William Weeden Cole, M. Am. Soc. C. E., Consulting Engineer, New York City, was found dead, Dec. 20, in a hotel in Poughkeepsie, N. Y., to which city he had gone on business. It is thought that he was accidentally asphyxiated. He was born at Medford, Mass., in 1868. At various times he was Division Engineer of the Toledo, St. Louis & Kansas City Ry., Superintendent of Electrical Affairs on the West End Street R.R., in Boston, and was identified with the Utica (N. Y.) Belt Line, designing and building the West Side R.R. and Elmira Heights Water-Works. For a period of 16 years he was associated with the Public Utilities Co., of Elmira, during which time the city's gas, electricity, street

railways and water were consolidated into one corporation, of which he was the Vice-President and General Manager. In 1907 Mr. Cole left Elmira to enter the firm of Day & Zimmerman, of Philadelphia, where he remained for seven years, after which he became a member of the firm of Cole, Ives & Davidson, of New York City.

ENGINEERING SOCIETIES

COMING MEETINGS

SECOND PAN-AMERICAN SCIENTIFIC CONGRESS.
Dec. 27-Jan. 8. Washington, D. C.

AMERICAN CIVIC ASSOCIATION.
Dec. 28-31. Annual convention in Washington, D. C. Secy., R. B. Watrous, Union Trust Bldg., Washington, D. C.

SOCIETY OF CONSTRUCTORS OF FEDERAL BUILDINGS.
Jan. 3-6. Seventh annual convention in Washington, D. C. Secy., C. R. Marsh, Brattleboro, Vt.

ALABAMA ASSOCIATION OF HIGHWAY ENGINEERS.
Jan. 8. Annual meeting in Montgomery. Secy., J. B. Converse, City Engineer, Selma, Ala.

LOUISIANA ENGINEERING SOCIETY.
Jan. 8. Annual meeting in New Orleans. Secy., W. T. Hogg, State Museum Bldg., New Orleans, La.

WESTERN SOCIETY OF ENGINEERS.
Jan. 12. Annual meeting in Chicago. Acting Secy., E. N. Layfield, 1735 Monadnock Block, Chicago, Ill.

ENGINEERS' SOCIETY OF PENNSYLVANIA.
Jan. 14. Annual meeting in Harrisburg. Secy., E. R. Dasher, 30 So. Front St., Harrisburg, Penn.

CENTRAL RAILWAY CLUB.
Jan. 14. Annual meeeting in Buffalo, N. Y. Secy., H. D. Vought, 95 Liberty St., New York City.

WESTERN PAVING BRICK MANUFACTURERS' ASSOCIATION.
Jan. 14-15. Annual meeting in Kansas City, Mo. Secy., G. W. Thurston, 416 Dwight Bldg., Kansas City, Mo.

MONTANA INSTITUTE OF MUNICIPAL ENGINEERS.
Jan. 17-19. Annual meeting at Billings, Mont. Secy., C. C. Widener, Bozeman, Mont.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 19-20. Annual meeting in New York City. Secy., C. W. Hunt.

NATIONAL DRAINAGE CONGRESS.
Jan. 19-21. Annual meeting, Cairo, Ill. Vice-Pres., Edmund T. Perkins, First National Bank Building, Chicago, Ill.

NATIONAL SOCIETY FOR THE PROMOTION OF INDUSTRIAL EDUCATION.
Jan. 20-22. Annual convention in Minneapolis. Secy., Alvin E. Dodd, 140 West 42nd St., New York City.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Jan. 18. Annual meeting in Pittsburgh. Secy., E. K. Hiles, 2511 Oliver Building, Pittsburgh, Penn.

KANSAS ENGINEERING SOCIETY.
Jan. 18-19. Annual meeting at Kansas State Agricultural College. Secy., C. A. Foster, Topeka, Kan.

AMERICAN WOOD-PRESERVERS' ASSOCIATION.
Jan. 18-20. Annual convention in Chicago. Secy., F. J. Angier, Mount Royal Station, Baltimore, Md.

THE FRANKLIN INSTITUTE.
Jan. 19. Annual meeting in Philadelphia. Secy., R. B. Owens, Philadelphia, Penn.

ILLINOIS CHAPTER: AMERICAN WATER-WORKS ASSOCIATION.
Jan. 25-27. Annual meeting, University of Illinois, Urbana. Secy., Dr. Edward Bartow, Urbana, Ill.

ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.
Jan. 26-28. Annual meeting, University of Illinois, Urbana, Ill. Secy., E. E. R. Tratman, Wheaton, Ill.

WISCONSIN HIGHWAY COMMISSIONERS' ASSOCIATION.
Jan. 31. Annual meeting in Madison. Secy., G. H. Mainwaring, Gotham, Wis.

INDIANA SANITARY AND WATER-SUPPLY ASSOCIATION.
Feb. 2-5. Annual meeting in Indianapolis. Asst. Secy., W. F. King, Indianapolis, Ind.

INDIANA ENGINEERING SOCIETY.
Feb. 3-5. Annual meeting in Indianapolis. Secy., Charles Brossmann, 1616 Merchants Bank Bldg., Indianapolis, Ind.

NINTH CHICAGO CEMENT SHOW.
Feb. 12-19. First Infantry Armory and Coliseum. Secy., R. F. Hall, 208 South La Salle St., Chicago, Ill.

AMERICAN CONCRETE INSTITUTE.
Feb. 14-17. Annual convention in Chicago. Secy., John M. Goodell, 1418 Walnut St., Philadelphia, Penn.

ASSOCIATION OF ONTARIO LAND SURVEYORS.
Feb. 15. Annual meeting in Toronto, Can. Secy., L. V. Rorke, Parliament Building, Toronto, Ont.

SECOND NATIONAL CONFERENCE ON CONCRETE ROAD BUILDING.
Feb. 15-18. At Chicago. Secy., J. P. Beck, 208 South La Salle St., Chicago, Ill.

IOWA ENGINEERING SOCIETY.
Feb. 16-18. Annual meeting at Des Moines. Secy., J. H. Dunlap, Iowa City, Iowa.

NEW ENGLAND ASSOCIATION OF GAS ENGINEERS.
Feb. 16. Annual meeting in Boston. Secy., N. W. Gifford, 38 Central Sq., East Boston, Mass.

AMERICAN CONCRETE PIPE ASSOCIATION.
Feb. 17-18. Annual convention in Chicago. Secy., E. S. Hanson, 538 South Clark St., Chicago, Ill.

AMERICAN ROAD BUILDERS' ASSOCIATION.
Feb. 22-25. Annual convention in Pittsburgh. Secy., E. L. Powers, 150 Nassau St., New York City.

The Pacific Northwest Society of Engineers will hold its annual meeting and year-end dinner in Seattle, at the Arctic Club, on Jan. 8.

The Ohio Engineering Society will hold its 38th annual meeting in Columbus, Feb. 9 to 11. The secretary is John Laylin, Norwalk, Ohio.

Iowa Engineering Society—The annual meeting will be held at Des Moines, Feb. 16 to 18. The secretary is J. H. Dunlap, Iowa City, Iowa.

American Electric Railway Association—The annual midwinter meeting will be held at the Congress Hotel, Chicago, Feb. 4, 1916. The general discussions will center around the topics "Valuation" and "Rate of Return."

The Cleveland Association of Members of the American Society of Civil Engineers has elected the following officers for 1916: President, Robert Hoffmann; vice-president, W. J. Watson; secretary-treasurer, Geo. H. Tinker. The new president is chief engineer of the Department of Public Service of Cleveland.

The Engineers' Society of Pennsylvania at its December meeting elected the following officers: President, R. Boone Abbott, division engineer, Philadelphia & Reading Ry.: first vice-president, W. W. Davis; second vice-president, Morris Knowles; directors, F. A. Robbins, Jr., D. E. Tracy, Elton D. Walker; treasurer, John O'Connell; secretary, Edward R. Dasher, 31 So. Front St., Harrisburg, Penn.

Buffalo Engineering Society—At a meeting on Dec. 15 the relation of the engineer to civic welfare and the municipality was discussed by C. E. Drayer, secretary of the Cleveland Engineering Society. He urged that local engineering societies should aid municipal governments in the proper solution of engineering problems. Three of the councilmen-elect, who are to conduct the commission government of Buffalo after Jan. 1, were present at the meeting. A resolution was adopted to appoint a committee of five to coöperate with the municipal commission in the solution of engineering problems. John Younger, Chief Engineer of the truck-department of the Pierce-Arrow Motor Car Co., said that his company was willing to coöperate with the schools of the city in the training of students in mechanical trades according to the coöperative educational plan.

The San Francisco Association of members of the American Society of Civil Engineers held its eleventh annual meeting at the Palace Hotel on Dec. 17. Vice-president Couchot presided, and 49 members and guests were present. A communication from Jerome Newman, suggesting that an effort be made to ascertain the views of the association as to the extent to which it is justifiable for one engineer to use the plans and specifications of another without permission and without giving credit to the latter, was read. After a brief discussion by Messrs. Newman, Marx, Brunnier, Rhodin and Duryea it was ordered that a committee of five be appointed to define principles of ethics in engineering practice and report at a subsequent meeting. Officers for the ensuing year are: President, H. L. Hachl; vice-president, Jerome Newman.

The Engineering Association of the South held its annual meeting in Nashville, Tenn., at the Commercial Club, on Dec. 18. The election of officers was announced as follows: President, T. P. Branch, Professor of Civil Engineering of the Georgia School of Technology, Atlanta, Ga.; vice-presidents, John Howe Peyton and L. M. Thacher; secretary, J. Harwell Allen, of the Allen-Scales Engineering Co., Nashville, Tenn.; directors, C. S. Brown, C. H. Simpson and L. J. Hill. Professor Brown, the retiring president, read a paper on smoke abatement. James Cameron, of New York City, who is conducting the municipal audit at Nashville, called attention to a defect in the present city charter. The commissioners can issue bonds for trunk sewers, but to do the same thing for laterals is illegal. A committee was appointed by the association to devise a remedy.

Associated Engineering Societies is the name under which the following engineering organizations have combined: Pacific Northwest Society of Engineers, Washington Association of Engineers, local sections of the American Society of Civil Engineers, American Institute of Electrical Engineers, American Institute of Mining Engineers, American Chemical Society. A joint council consisting of two members from each of these societies will work out a scheme of operation for

1916. The Engineers' Club is considering the question of joining the association as a charter member, and an invitation has been extended to the Washington Chapter of the American Institute of Architects. The members of the preliminary joint council are: J. T. Dovey, S. H. Hill, S. C. Lindsay, E. A. Loew, G. A. Collins, Amos Slater, C. E. Magnusson, G. P. James, J. H. Linton, C. A. Newhall, J. L. Hall and Robert Howes.

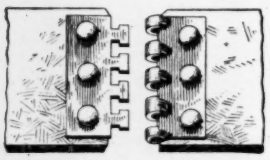
American Road Builders' Association—A special meeting of the board of directors was held in New York on Dec. 16, at which it was decided to hold the convention for 1916 in Pittsburgh, beginning on Feb. 28. The board also adopted a resolution inviting the American Highway Association to hold its annual convention for 1916 at Pittsburgh at the same time. In case the invitation is accepted by the American Highway Association, a committee of the American Road Builders' Association will be authorized to join with representatives of the other association in the preparation of a program for the two meetings, which will avoid the duplication of subjects. The resolution further recited that it was the hope of the directors of the American Boad Builders' Association that some such plan as outlined may be found satisfactory not only for 1916 but for subsequent meetings which may be held under alternate control.

The Minnesota Joint Engineering Board was organized at an informal meeting held recently at the St. Paul Commercial Club. The meeting was called by the president of the Minnesota Section of the American Institute of Electrical Engineeers, and the president or chairman of each of the following engineering organizations was present: Minnesota Section of the American Society of Mechanical Engineers, Northwest Association of the Members of the American Society of Civil Engineers, Minnesota Surveyors' and Engineers' Society, Minneapolis Engineers' Club, Civil Engineers' Society of St. Paul. The dean of the College of Engineering of the University of Minnesota also attended. After general discussion as to how to make the board of greatest value to the engineering profession the meeting was adjourned. It will meet for luncheon at the Minneapolis Club on Jan. 4, at which time it is hoped that the work of organization will be completed.

Appliances and Materials

New Belt Coupling

A new belt coupling, of particular interest to contractors because of the ease of opening the joint, has been brought out by Stewart & Co., 171 Broadway, New York City. As shown in the acompanying sketch, there are two plates riveted to the two ends of the belt (with clinch rivets). From one plate extend a series of eyes engaging the pins of the other plate when the joint is closed. This form of coupling costs complete from 90c. per doz. for 1-in. belts to $2.50 per doz. for the 6-in. size.



STEWART BELT JOINT

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New Glass for Industrial Apparatus

A new borosilicate glass, combining very low thermal expansion with great resistance to attack of chemical reagents, has been developed at the Corning Glass Works, Corning, N. Y. Its specific gravity is 2.25; the mean linear expansion coefficient (19° to 350° C.) is 0.0000032. Water at boiling temperature dissolves an amount of this glass several times less than of the best imported laboratory glass. The physical properties of the new material are due to the simple chemical composition—high silica content and freedom from heavy metals. Water in both thick and thin dishes of this glass exposed to 70° to 90° C. oven temperatures absorbed more heat than in aluminum, tin or enameled earthenware dishes. Resistance to fracture has been studied by dropping 350-gram weights on inverted dishes of 4.3 to 5.8 mm. bottom thickness; falls of 22 to 34 in. were required to break or crack, compared with 6 to 18 in. for enameled earthenware, and 4 to 16 in. for crockery of the same or greater bottom thickness. Culinary ware has been made from this glass and shown to give more rapid baking than that made of metal or earthenware.

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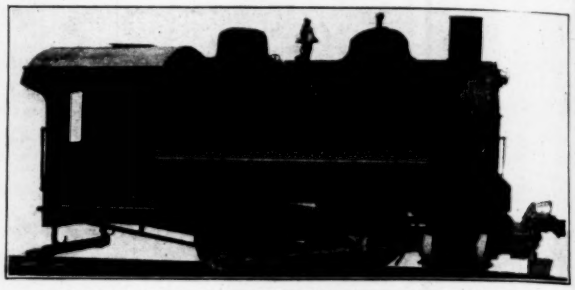
Steam-Storage Industrial Locomotives

Fireless steam locomotives, in which steam is stored under pressure in a tank taking the place of the ordinary boiler, are desirable for industrial service under certain conditions. Besides eliminating danger from fire, the engines are of comparatively low cost and easy to operate. The illustration shows one of three steam-storage engines built for the National Cash Register Co. by the Lima Locomotive Corporation, of Lima, Ohio.

It is a 38-ton, four-wheel, standard-gage engine, with 9,720 lb. tractive power and a factor of adhesion of 7.9. It has 36-in. wheels and a 6-ft. wheelbase, and is driven by 18-in. cylinders. The large cylinder diameter enables the engine to run to the charging station under very low pressure.

The tank is 7 ft. in diameter and 16 ft. long, clothed with 2 in. of magnesia insulation under the steel jacket. Three



STEAM-STORAGE INDUSTRIAL LOCOMOTIVE

baffle plates with small openings prevent surging of the water, and at the bottom is a 2-in. perforated pipe for charging the steam. With the tank about half full of water, this pipe is connected to the boiler plant and steam forced in under 200-lb. pressure until the pressure in the tank is about 150 to 160 lb. The pressure in the cylinders is reduced to about 60 to 65 lb. by a reducing valve.

A small storage battery supplies current for the headlight. The bell ringer, sand feed and emergency brake are operated by compressed air from tanks which are charged at the power plant. A handbrake is used for ordinary work. The engines operate on about 2 mi. of track.

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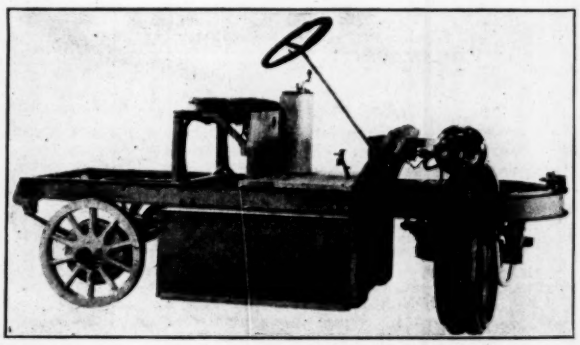
A Tractor with One-Wheel Drive

An electric three-wheel tractor, designed to replace team haulage where possible, has been placed on the market by the Couple-Gear Freight-Wheel Co., of Grand Rapids, Mich. The tractor is approximately the length of a team and wagon and can be turned in less space (see view). The motor is contained in and inclosed by the forward wheel and is held rigidly between the steering forks, so that the wheel revolves around the motor. On each end of the motor shaft is a small



TRACTOR WITH SINGLE-WHEEL DRIVE

pinion which engages with a circular rack fastened inside the rim. Tractors of this general design have been ussed to haul lumber from mill to yard and have given good service. The loads, of 3 to 5 tons, were hauled on planking.

In producing a tractor for general freight haulage, the manufacturer proposes that one tractor be used in connection with two wagons—one wagon being loaded while the other is being delivered and unloaded. The Radcaw Lumber Co., of Stamps, Ark., states that on May 1, 1915, it replaced 15 mules and drivers with three tractors. Once a day 15 min. is spent in oiling the machines, and at night the batteries are charged, 4 hr. being required for this operation.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

BUSINESS SLOWLY IMPROVING

The shock given to business in May was perhaps overcome in June, but the volume does not increase as steadily as many believed it would. There seems to be every indication that the groundwork has been prepared for the most prosperous year in the history of the country. There were large crops last year and they were sold at high prices. The prospects are that the crops of this year will be fully as remunerative to the farmer, although it is still too early to talk of the corn crop, and besides, industrial activity is picking up. Still general business does not improve as was expected. The only explanation of this is that people are either saving it or paying their debts, and the former is the more probable. The financial situation will be built on this structure, and was never so sound as it now is. With the steady savings of a great population following an accumulation of capital piled up in 1914, this country is buying back from Europe, at bargain prices, securities sold there years ago. The securities that are coming back, too, are not being paid for in legal tender, but in food stuffs and munitions of war, all of which are commanding high prices.

Foreign business has been large, and fortunately, much of it has been for staple goods and not for war munitions. The car equipment companies and the builders of motive power have had a number of orders for quantities of cars and locomotives. Foreign orders are likewise resulting in American manufacturers taking up new ideas of work and effecting economies therein. The enormous orders for aëroplane engines will result in the building of new types of engines on a scale hitherto thought out of the question, and that in itself will result in lowered costs and make possible the building of better high-speed engines than ever before. A Russian order for locomotives required copper fire box lining, and although these have been rolled in the United States before they have not been of arsenical copper. This will save perhaps half a cent per pound in the refining, and at the present price of copper fully a cent per pound in the deleterious material therein contained.

War orders have been just as large as ever, but few of them have gone forward. It is impossible to secure machine tools of some classes within six months, and manufacturers are unwilling to make any contracts for forward delivery. As war orders continue to increase the number of shops turning from peaceful pursuits to manufacture weapons of destruction increase, and there seems to be no limit to the manufacturing establishments taking orders of this character.

The iron trade has increased steadily, and some of the mills are now operating to 90% of capacity, although 80% would be more nearly the general average. It is noteworthy that the Steel Corporation has put in operation some of its plants which cannot be operated at a profit except when prices are fairly remunerative. This is taken by the trade to mean that the Corporation sees higher prices for steel.

The demand for metals continues unabated, but the ridiculously high prices which were current early in June have given away to more reasonable quotations. Spelter, which went up to 29c., is now available at around 20c. Lead which sold at 7c. can be had at 5¾c. Copper which sold at 20½c. has dropped off about a half a cent. In brass tubes, rods, and sheets, there is much irregularity, and practically no current quotations.

Shipbuilding work is extremely active. All of the yards on the Atlantic Coast have orders which will keep them busy for the next twenty-four months, and quite a little business has been taken by yards on the Pacific Coast. The Great Lakes shops also are busy, either repairing, building, or cutting boats in two so that they can be transported through the Welland Canal to the Atlantic Seaboard.

Contracting work has not been so active. There are a great many small jobs in prospect, but the larger jobs are being held up awaiting more definite news relative to financeering. At least one contract has been noted where the condition precedent to the beginning of the work was that the United States should not be at war on August 1. Subway work in New York continues on a fairly active scale, and there is a prospect that this will be increased later in the season.

Rates for long-time securities are higher, and while it is possible to obtain money in abundance, bankers are reluctant to let it go out on long-time investments for municipal purposes unless 4½ to 5½% can be had. In some cases, cities are changing their financial policy by issuing serial bonds, which find more ready favor among investors, and perhaps much of the work now held up can be carried forward by such schemes.

Cement prices in New York were advanced 10c. per bbl. to $1.42 July 1.

LABOR

The expected shortage of labor has not materalized as yet. There is considerable apprehension at the steel mills, but outside of one or two instances there has been no difficulty in securing all of the needed labor. In the coal mines there is some shortage, as the coal trade is more active, due to large export trade. Among contractors no difficulty has as yet been experienced in securing sufficient men to do the work. This applies to all classes of laborers, and it would be comparatively easy to secure a large number of workmen at $1.75 per day. In some of the recent subway bidding it is evident that the larger companies felt that labor might be higher later in the year, as their figures were considerably higher than formerly. Several strikes have occurred, which indicates that labor is better employed. The fact that some of them were quickly stopped and others nipped in their infancy, indicates that the wiser counsellors among labor leaders perceive that it is not the best time to strike. The Chicago traction strike was somewhat of a political affair, and the tieup of the building trades in that city is not especially remarkable when it is considered that there has been nearly 12 months activity in those trades. A threatened strike by the clerical force of the New Haven R.R. is still in abeyance. Fancy wages are being paid for skilled mechanics having the ability to operate machine tools, and all sorts of inducements are made to them to go to Great Britain and work or to go to Canada. In this line, wages have risen in a spectacular way. There is every reason to believe that from now on the countries at war will produce more of their own war munitions than they have in the past. Whether this will reflect on the American output or not is another question.

CEMENT, LIME AND BRICK

Portland Cement—The consumption of cement is about 80% of the maximum output. Most of it is going into small work; that is, aside from the subways in New York, there is very little large work going on. Railroads are doing practically nothing, and this is the one reason why business in the cement trade continues so dull. The advance of 10c. per barrel made earlier in the month, bringing the price to 92c. New York, less the price for bags, and $1.32 the price with bags, has been fairly well sustained, most of the smaller companies being out of the market. There seems to be very good reason to believe that business in the South has improved to a much greater degree than was thought possible when the strenuous competition in that district is taken into consideration. In the West there has been some excellent trade from the road builders. In the East, the reluctance of the railroads and large corporations to spend money has been a telling factor, but at the same time highway work has taken more cement than usual. In the west prices are above 5c. per bbl. higher. The following quotations are current at the points named, and do not include the usual charge for bags:

Chicago	$1.11	Boston	$1.16
Detroit	1.20	Cleveland	1.20
Jersey City	0.74	Duluth	1.37
New York	0.93	Minneapolis	1.37
St. Paul	1.37	Pittsburgh	1.05

Crushed Stone—The entrance of the new interests in the crushed stone business into the New York market has brought about demoralizing conditions. There seems to be no price. It is more a question of getting an order. Sales have been made as low as 65c. per cu.yd. delivered alongside of dock, New York, and when the difference between the various sizes is taken into consideration, even lower prices in proportion have been made. The market seems without bottom, and moreover, there is practically no new business.

Gravel—Sellers of gravel in the New York market have not met the competition of the crushed stone men, but have kept prices fairly steady at 90c. to $1 for subway gravel. The reason for this is the long-time contracts made for some subway gravel at higher prices. Many contractors prefer to use gravel at a dollar rather than crushed stone at 70c.

Lime—The market is steady and without change. Standard 300-lb. special finishing sells at $1.55 to $1.60. Eastern common sells at $1.15.

Brick—The manufacture of brick in the Hudson River district is about 70% of capacity. The stock of bricks in the yards is large. Although there have been larger stocks in years past, the stock now on hand would be enough to break the market under ordinary conditions. Prices are not at all firm at $6@6.50 for Hudson River common and $6.25 for Raritan River brick.

IRON AND STEEL

Pig Iron—The production of pig iron during May was larger than in the corresponding month last year. The blast furnaces of the country are running to 80% of capacity, prices are firmer, and in general the feeling in the pig-iron trade is much more optimistic than a month ago. Individual sales have not been large but have been numerous. Blast furnace interests are reluctant to sell for forward delivery unless premiums above present prices are given. The demand for steel-making iron is relatively more active than foundry iron, although a noticeable improvement in inquiries for foundry brands has sprung up within the last fortnight. An advance of 25c. a ton in the price of southern iron brings the price to $9.75, and is the important price change of the month. Basic iron is also higher. While the price of coke is only 10c. per ton higher than a month ago, this is having its influence in the pig-iron market. Prices in lots of 100 tons or over at the points named are as follows: Cincinnati Southern Foundry No. 2, $12.50 to $13. Cincinnati Northern Foundry No. 2, $13.75 to $14.25. Cincinnati Northern Foundry No. 3, $13.50 to $13.75. New York Northern Foundry No. 2X, $14.25 to $14.50. New York Northern Foundry, No. 2 plain, $13.75 to $14. Southern Foundry No. 2 in the New York market is $14.25. In Chicago, Northern Foundry No. 2 is $13 to $13.50. In Birmingham, the principal pig-iron interests report that they have no iron for sale for any delivery at less than $10. Other interests are quoting $9.75 to $10. In Pittsburgh, Bessemer iron is $14.65 and basic, $13.55 for July and August delivery; $13.65 to $13.70 for delivery over the second half of the year. This includes the 95c. freight charge from the valley to the Pittsburgh district.

Steel Rails—Business has been fairly satisfactory, and the rail mills are busier than at any time in the last year. The Pennsylvania order for upwards of 150,000 tons was placed, and this order included some 125-lb. rails. Other railroads in the United States bought sparingly, it is true, but still there was a fair business contracted. Most of the business aside from the Pennsylvania order has been for foreign accounts. The Russian Government has placed some orders, but practically all of the business from Russia has been of such dilatory nature that only the most patient firms are willing to continue negotiations. Some orders, particularly for engines, were hanging fire for several months, and it is creditably reported that a shell order was delayed six weeks, due to a small difference in the ideas of price. The French Government has purchased a fair tonnage of light rails. The subway and elevated lines in New York are buying small quantities from time to time for new construction. Prices for lots of a thousand tons or over are as follows: Standard sections of Bessemer, $28; Open Hearth, $30, both per gross ton f.o.b. Pittsburgh. In last month's issue an error was made in stating that Bessemer and open hearth rails were sold per net ton. Girder rails in 30-ft. lengths are $36.40 per gross ton; in 60-ft. lengths, $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, the prices being given in cents per lb., are as follows:

Standard sections, 1.25c.; 20 to 30 lb., 1.15c.; 15 to 20 lb., 1.20c.; 12 to 18 lb., 1.25c.; 8 to 12 lb., 1.30c.

Track Supplies—The picking up of business which was noted last month continues, but is not especially active. An advance of a dollar a ton in tie plates is noted, the price in Chicago being $23.25 to $24.25 per net ton. Standard railroad spikes are $1.40 to $1.50 Pittsburgh. In Chicago prices are quoted at $1.50, track bolts and square nuts $1.90 in carload lot. Angle bars are likewise quoted at $1.50. These prices are per 100 lb. It is reported that the Baltimore & Ohio recently bought 10,000 kegs of spikes.

Structural Shapes—An advance of 5c. per 100 lb., which was to have taken place on July 1, occurred about the middle of the month. Fabricating orders are not especially large, but there is a great deal of strength in the market for shapes, due to a demand from car builders and shipbuilding concerns. There is also a very good tonnage just now being shipped out of the mills for the new Rapid Transit construction in New York. Prices as stated are higher, for I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., T's 3 in. and over, 1.25c. Other quotations include I-beams over 18 in., H-beams over 18 in., channels over 15 in., angles over 14 in., 1.30c.

Cutting to specified lengths is charged at the following rates: 3 ft. to 2 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cuttting to specified lengths above 3 ft. In Philadelphia the base price is $1.41, in San Francisco $2.05 to $2.10, and in New York $1.42. All these prices are per 100 lb.

Plates—The activity in shipbuilding yards continues, and within the last month there have been a number of orders placed for cars, which has resulted in much new business for plates. All of the larger mills are holding to $1.20 Pittsburgh for plates, and some of them state they will not accept orders for third-quarter shipment at less than $1.25. It is evident that the shipbuilding yards have about all the work they can take care of for the next two years, but car orders are still small. The price of plates is $1.20 to $1.25 Pittsburgh, equivalent to $1.29 to $1.34 Chicago, $1.36 to $1.41 Philadelphia, $1.37 to $1.42 New York. All of these quotations are per 100 lb.

Pipe—Business has been more active, both in the black and galvanized. Galvanized pipe is selling at unheard of prices, and as a further effort to restrict consumption mills are accepting orders only on the basis of 60% black pipe and 40% galvanized. This of course accounts for an increase in the demand for black pipe. The recent decline in spelter may bring about lower prices for galvanized, but still there is little likelihood of any cheap galvanized pipe for some time to come.

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	57½%
2½- to 6-in. steel, lap welded	78%	56½%
7- to 12-in. steel, lap welded	76%	54½%

At these discounts the net prices of pipe per foot, in large in lots Pittsburgh, are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
⅜-in.	2.43	4.88	5-in.	32.56	64.38
1-in.	3.57	7.22	6-in.	42.24	83.52
1¼-in.	4.83	9.77	7-in.	57.12	1.08
1½-in.	5.77	11.68	8-in.	60.00	1.13
2-in.	7.77	15.72	9-in.	82.80	1.56
2½-in.	12.87	25.44	10-in.	98.88	1.87
3-in.	16.83	33.27	11-in.	1.11	2.10
4-in.	23.98	47.41	12-in.	1.21	2.31

	Cents per Pound—Large lots Pittsburgh Black	Cents per Pound—Large lots Pittsburgh *Galv.	Cents per Pound—Warehouse delivery New York Black	Cents per Pound—Warehouse delivery New York *Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.75
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

*Quotations nominal.

Cast-Iron Pipe—Pipe foundries are running about 70% to 80% of capacity. There was a fair amount of export business reported from the Birmingham district, but that is retarded on account of the high freight rate. The advance in the price of pig iron is responsible for the strength in certain markets, such as Chicago, but the entire tendency seems to be upward. In New York, Classs A pipe and gas pipe is $23.50 to $24 per net ton, while Class B pipe is $23.50 to $23.50. In Birmingham, 4 in. is $20, 6 in. and upward $18. In Chicago prices are 50c. a ton higher than last month, 4 in. being held at $26; 6 to 12 in., $24; 16 in. and upward, $23.50. For Class A pipe and gas pipe $1 per ton extra is charged. All of these prices are per net ton.

Sheets—The mills are operating to about 80% of capacity, and this in spite of the fact that several are refusing to make contracts for galvanized sheets, practically all of them holding their salesmen down to confirmation of their orders by telegraph, and still others doing everything they can to discourage sales. The price of No. 28 galvanized is 5c. per lb. at the mills. This is a difference of 3c. between galvanized and black, compared with about 1c. ordinarily. That trade will quickly turn to black sheets, or stop using sheets for the time being as much as possible, is admitted by all hands. There has been a recent drop of 6 to 8c. in the price of spelter, but this is scarcely enough to let out the galvanizing mills. If the price drops to around 12 or 15c. there is no doubt that prices would be more nearly normal. Black sheets are quiet, although the falling off in the demand for galvanized has resulted in a heavier increase for black. The following quotations are for large lots of sheets f.o.b. Pittsburgh and small lots from store New York:

	Cents per Pound—Large lots Pittsburgh Black	Cents per Pound—Large lots Pittsburgh *Galv.	Cents per Pound—Warehouse delivery New York Black	Cents per Pound—Warehouse delivery New York *Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.70
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

*Quotations nominal.

Steel Sheet Piling—Prices are somewhat higher, at $1.55 to $1.60 per 100 lb. f.o.b. Pittsburgh.

Old Materials—In all materials the market appears to be considerably better than a month ago. There have been numerous advances, and moreover, customers are asking for material. Holders of scrap are not disposed to let go of it at these prices. Then, with the advance in pig iron, foundrymen are coming into the market. In New York an advance of 50 to 75c. a ton in No. 1 machinery cast is noted, and stove plate is $1 per ton higher than a month ago.

	Per Gross Ton
Heavy-melting steel scrap	$9.00 to $9.25
Pipes and flues	8.25 to 8.50
No. 1 railroad wrought	10.50 to 10.75
Stove plate	8.75 to 9.25
No. 1 machinery cast	12.00 to 12.50
Wrought turnings	6.00 to 6.25

The principal news in Chicago market is much larger buying of heavy melting steel scrap. Prices are unchanged, but the demand is far more active. Then there has been an advance of 50c. per ton in agricultural malleable and one of 25c. per ton in railroad malleable.

	Per Gross Ton
Heavy-melting steel scrap	$9.50 to $9.75

	Per Net Ton
No. 1 railroad wrought	$9.00 to $9.25
No. 2 railroad wrought	8.25 to 8.75
No. 1 cast scrap	9.00 to 9.75
Pipes and flues	6.25 to 6.75
Agricultural malleable	7.75 to 8.00
Railroad malleable	8.50 to 8.75

The Pittsburgh market is dull. The demand does not seem to have reached there yet, and although there is an advance of 25c. a ton in foundry cast and a similar one in machine shop turnings, the general market is lifeless.

	Per Gross Ton
Heavy-melting steel scrap	$11.75
Rerolling rails	11.75 to 12.00
No. 1 foundry cast	12.25 to 12.50
Old car wheels	11.75 to 12.00
Machine shop turnings	8.00 to 8.25
Railroad malleable	10.50 to 10.75

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

¼ in.	$7.50	½ and ⅝ in.	$3.00
⅜ in.	4.95	¾ and ⅞ in.	2.90
½ in.	3.95	¾ and ⅞ in.	2.80
⅝ in.	3.40	⅞ ond 1 in.	2.70
⅞ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER -00 POUNDS

	For BB	For BBB
⅛-in. and ¼-in.	$1.50	$2.00
⅜-in. and larger	1.25	1.75

Wire—The demand for wire is excellent, and it is practically impossible to secure any immediate delivery of barbed wire. Consequently, orders on this product are being turned down daily. Prices are extremely firm, $1.35@1.40 being asked for annealed fence wire, and $1.60 for painted barbed

wire. Galvanized barbed wire and fence staples are $2.40, but even at this price there is some uncertainty about getting deliveries. All of these prices are f.o.b. Pittsburgh and per 100 lb. Woven wire fencing is higher, being quoted at 79% off in carload lots, 68% in 1000-rod lots, and 67% in small lots, f.o.b. Pittsburgh.

Merchant Steel—Business continues to improve, especially for small lots from merchants' store. There has been no change in price, but it is probable that before the end of the month an advance of at least 5c. per 100 lb. will be made. Quotations from jobbers' store in New York are as follows:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in.	1.85
1½ to 4 in. x ¼ to ⅞ in.	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
⅜ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in.	1.85
1 to 6 in. x ¼ and ⅛	2.00
Rods—⅝ and ½ in.	1.95
Bands—1½ to 6x⅛ in. to No. 8	2.15
Beams and channels—3 to 15 in.	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ⅛ in. and ⅛ in.	2.35
1½ to 2¾ in. x ⅛ in. and thicker	2.00
1¼ to 2½ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅜ in.	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅛ in.	2.15
3 in. and larger	1.95

Wire Rope—Business shows some increase, but the demand is not yet up to normal. Discounts are unchanged at 47 and 5% from list for galvanized, and 55 and 5% for bright. At these discounts the net prices of wire rope at the mills are as follows:

Diameter in Inches	Price per Foot—Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Freight Rates—The freight rates on finished steel products from the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized, wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows, in cents per 100 lb.: Boston, 18.9c.; Buffalo, 11.6c.; Baltimore, 15.4c.; Cleveland, 10.5c.; Cincinnati, 15.8c.; Chicago, 18.9c.; Denver, Colo., 68.6c.; New Orleans, 30c.; New York, 16.9c.; Philadelphia, 15.9c.; St. Louis, 23.6c.; Minnesota and St. Paul, 32.9c.; Pacific Coast (all rail), 80c.

REINFORCING MATERIALS

Triangle Mesh—The demand shows a steady improvement. Prices are firm.

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.14[illegible]	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	[illegible].55	1.88	1.72	2.05
†43	0.101	[illegible].10	1.34	1.23	1.46

Bars, Concrete Reinforcing—A tremendous amount of business is being done at the mills for the agricultural implement makers, which has resulted in higher prices. This carries with it an advanced quotation for reinforcing bars of $1 per ton at the same mills. The demand for reinforcing bars is not so active as for other bars, but it is far better than at any time in the last year. Prices are higher as stated and are quoted as follows:

Size	Cents per Pound—Mill Shipments Pittsburgh	*Warehouse Pittsburgh	Delivered from *Warehouse New York
¾-in. and larger	1.25	1.60	2.05 to 2.10
⅝-in.	1.30	1.75	2.10 to 2.15
½-in.	1.45	1.90	2.25 to 2.30
⅜-in.	1.55	2.00	2.35 to 2.40
¼-in.	1.83	2.30	2.70 to 2.75

*Bars from warehouse are cut to desired length without extra charge.

CLAY PRODUCTS

Sewer Pipe—There is a great deal of municipal work going on, and as a result quite a flood of inquires has been received. Sales as compared with the same period a year ago have shown an increase. However, prices remain unchanged, the following discounts still being effective: On 3 in. to 24 in., 80% off list; 27 to 30 in., 70%; 30 to 36 in., 65%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.05	18-in.	$0.38
4-in.	0.05	20-in.	0.45
5-in.	0.08	22-in.	0.60
6-in.	0.08	24-in.	0.65
8-in.	0.11	27-in.	1.35
10-in.	0.16	30-in.	1.65
12-in.	0.20	33-in.	2.20
15-in.	0.27	36-in.	2.45

Flue Lining—The discount on this material remains unchanged at 80% off list. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.07	8½x18-in.	45	$0.18
4½x13-in.	20	0.09	13x13-in.	45	0.17
7½x7½-in.	15	0.08	13x18-in.	57	0.24
8½x8½-in.	18	0.09	18x18-in.	75	0.40
8½x13-in.	28	0.13			

METALS

Copper—Dullness marked the refined copper trade more or less during the present month. At times however activity was apparent and prices have been maintained although a tendency toward lower prices was evidenced on more than one occasion. Stocks decreased 20,000,000 lb. during May and refineries are not increasing their output as rapidly as might be but a substantial increase in production is looked for in June. Important producers expect a renewed demand for electrolytic, as the nations at war are making inquiries for large amounts. Exports of copper since June first were 14,400 tons while imports at ports in the United States were 3140 tons of copper. Prices have fluctuated from 18½ to 20½c. the latter price being the quotation at the close of the market on June 26.

Tin—Deliveries of tin into the New York market have been larger during June. The demand on the whole has been good and prices have remained high after the advance reported last month. England placed an embargo on shipments of tin plate to Denmark, Norway, Sweden and Holland resulting in maintaining prices. This caused consumers to make inquiries for both spot and future shipments. The statistical position of tin on July 1 is likely to be favorable as the outlook is that Atlantic Coast deliveries may reach 2800 tons and importations on the Pacific Coast about 1000 tons. This indicates heavy American consumption. The suggestion is made that advances made in prices in London, due to the embargo announcement will result in American producers entering the breach and supplying the neutral countries affected by the order. This should force American consumers to import larger stocks of tin. Spot tin is quoted at 41c., New York.

Lead—The market has been very active during the past month. Prices advanced steadily until June 15 since which time a slight reaction has developed. Italy has an inquiry out for 2000 tons and it is expected contracts will be closed soon. Prices went as high as 8c. but toward the end of the month the situation warranted prices on a basis of 5⅞ to 6c. Speculation entered into the rise and those who were responsible for the advance are now selling at the lower prices.

Spelter—Prices reacted after the sensational advance last month. The heavy buying resulted in an actual advance to 27c. This was mainly due to concentrated buying by American manufacturers. It is said that about 100,000 tons entered into the recent transactions. Toward the end of June the reaction brought spot spelter as low as 17c. to 18c. but many transactions involving small lots are reported at 20c.

MISCELLANEOUS

Railway Ties—Because of the long period of dullness in this market, dealers feel confident that the railroads will soon place some orders and expect that business will pick up during the month of July. First-class standard ties 7x9 in.x8 ft. 6 in. sell at 73c., and 6x8 in.x8 ft. at 60c., these prices being f.o.b. New York.

Asphaltum—A considerable amount of work is now being done in the State of Florida, and highway bonds for $1,200,000 have been issued in two of the counties. The price of Mexican asphaltum is $13.50 per net ton, packed in wooden barrels f.o.b. refineries.

Chemicals—The demand for ammunition has worked a revolution in the chemical industry and has caused some prices to go to almost unheard of levels. Calcium hypochlorite sells at 1¼c. to 1½c. per lb. f.o.b. maker's works. Alumina sulphate is strong and will continue at a high level as long as the phenomenal demand continues for sulphuric acid. The price is $1.65. For alumina ferric sulphate $1.50 is demanded. Liquid chlorine sells at 10c. per lb. maker's works.

RAILWAYS—STEAM AND ELECTRIC

Maine—Skowhegan & Athens Electric R.R.—Plans are being considered by this company for the construction of an electric railway from Skowhegan to Athens, about 12 miles. H. E. Trueworthy, George F. Ayer and James Chapman, Athens, are interested.

Massachusetts—Bay State St. Ry.—This company has applied to the City Council of Revere, Mass., for permission to reconstruct its line on Revere St. from Pierce to Bellevue St. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

✚★New York, N. Y.—(Borough of Queens)—(Official)—The contract for the grading and masonry work on Section 2 of the New York Connecting R.R. has been awarded to WILSON & ENGLISH, 50 Church St., New York, for the first section of this contract and to PATRICK McMANUS, INC., Philadelphia, Penn., for the second section. A. C. Shand, Broad St. Station, Philadelphia, is Ch. Engr., Southern Division. Noted May 20.

New York—The Chamber of Commerce, Troy, N. Y., is considering plans for the construction of an electric railway from Troy to Rensselaer.

New Jersey—Easton & Washington Traction Co.—Plans are being prepared by this company for the extension of its line to Hackettstown and Lake Hopatcong, about 19 miles. W. O. Hay, Easton, Penn., is Secy., Gen. Mgr. and Pur. Agt.

New Jersey—Public Service Ry.—This company has been granted permission to double track its line on Raritan Ave., Raritan, N. J. R. E. Danforth, Newark, is Gen. Mgr.

Pennsylvania—Pennsylvania R.R.—This company contemplates the construction of a new branch freight line into Steelton, Penn., along the bed of the old Pennsylvania Canal. A. C. Shand, Philadelphia, is Ch. Engr.

Maryland—Chesapeake & Curtis Bay R.R.—This company has been incorporated to construct a belt line from the pier of the United States Asphalt Refining Co., on the north side of Curtis Bay, northerly and easterly to the Baltimore & Ohio R.R. tracks in East Brooklyn, Baltimore. Richard D. Upham, New York, and J. Cookman Boyd, John H. Zink, G. Aubrey Beard and Richard B. Pue are the incorporators.

West Virginia—White Sulphur & Huntersville R.R.—This company plans to construct an electric railway to connect White Sulphur, Montague, Mapledale, Divide, Alvon and Shryock, about 27 miles. T. J. Shryock, Baltimore, Md., is Pres.

North Carolina—Statesville Air Line R.R.—Preliminary arrangements are being made and work will soon be started by this company on the construction of its proposed railway from Statesville to a point between Harmony and Houstonville. D. M Ausley is Treas. and Gen. Mgr.

Georgia—North Georgia Mineral R.R.—This company is making surveys for the construction of a railway from Atlanta to Warfords Crossing. W. J. Morrison, Alex. C. King and J. J. Spalding, Atlanta, are interested.

Florida—W. S. Gardner, Secy., Arcadia Board of Trade, is negotiating with a view to the construction of a railway from Arcadia, via the Everglades to the eastern coast of Florida.

Florida—St. Petersburg & Gulf Ry.—This company contemplates the extension of its electric railway from St. Petersburg to Pinellas Park and Clearwater, Fla. W. M. Mosedale, St. Petersburg, is Ch. Engr.

Alabama—Peoples R.R.—Plans are being considered by this company for the extension of its line from Fairhope to Robertsdale, Ala., about 14 miles.

Alabama—W. W. Shortridge and associates have applied to the City Council of Birmingham, Ala., for a franchise to construct an electric railway from Birmingham to the Warrior River. Noted June 24.

✚Mississippi—Meridian & Memphis Ry.—This company has awarded a contract to C. G. KERSHAW & CO., Birmingham, Ala., for the completion of its line to Meridian.

Mississippi—Yazoo & Southern R.R.—This company has been organized to construct a railway from Yazoo City to Carthage, Miss., about 62 miles. George U. Nichols and S. Murphy, Chicago, Ill., are Dirs.

Kentucky—Charles Edwards, representing White & Co., Chicago, Ill., has secured the right-of-way from John W. Overall for the construction of an electric railway from Lebanon to Smithville. It is stated that the proposed railway will connect with the Nashville, Chattanooga & St. Louis Ry. at Lebanon, which will later be electrified.

✚Kentucky—Louisville & Nashville R.R.—This company has awarded a contract to GRANT MASON, Pineville, Ky., for the extension of its Martins Fork line to Grays Branch.

Ohio—Western Ohio R.R.—This company is considering plans for the extension of its electric railway from St. Marys to Minster, Ft. Loramie and Covington. J. W. S. Riegle, Findlay, is Ch. Engr.

Indiana—Public Utilities Co.—This company has been granted a franchise to extend its Main St. line in Evansville, Ind. A. C. Blinn, Evansville, is Vice-Pres. and Gen. Mgr.

Illinois—The residents of Stevensonville, a suburb of Bloomington, Ill., have petitioned the City Commission to construct an electric railway to that part of the city. A loop system by which the West Washington and Miller Park lines of the Bloomington St. Ry. can connect with a line through Stevensonville is proposed. A. G. Erickson, Comr., is trying to interest the Bloomington & Normal Ry. & Light Co. in the project.

Illinois—Aurora, Mendota & Western Traction Co.—The City Council of Aurora, Ill., has granted a franchise to this company to construct an electric railway through the city. This is part of a proposed line to connect Bristol, Plano, Sandwich, Leland, Earleville, Mendota and Princeton. Noted Apr. 15.

Illinois—Calhoun County Ry.—This company plans to construct an electric railway from Pearl to Golden Eagle, Ill. John E. Melick, Kampsville, is interested.

✚Illinois—New York, Chicago & St. Louis Ry.—The contract for filling on the Chicago track elevation work has been awarded by this company to P. T. CLIFFORD & SON, Valparaiso, Ind. E. E. Hart, Cleveland, Ohio, is Ch. Engr.

Kansas—Hutchinson Interurban Ry.—This company plans to extend its line on Second St. from Main to W[illegible] St., Hutchinson, Kan. James E. Humbert, Hutchinson, is Gen. Mgr. and Pur. Agt.

Kansas—Southwestern Interurban Ry.—This company plans to extend its electric railway from Winfield to Albright Gardens, near Oxford. S. M. Bradley, Winfield, is Ch. Engr.

Arkansas—A company is being organized to construct a railway from Huntsville Ark., to a connection with the St. Louis & San Francisco R.R., about 15 miles.

Arkansas—Boyd Mayo and D. J. Clotworthy, Turner, and J. F. Watkins, Postelle, are interested in a project to construct a railway from Turner to Postelle, Ark., about 14 miles.

Washington—A project to construct a belt railway to connect with the trackage of different piers owned by the Port of Seattle, is being considered by the Commission. J. R. West is Ch. Engr. of Comn.

Oregon—Oregon-Washington R.R. & Navigation Co.—Plans are being made by this company to construct an extension to its line from Riverside to Crane Creek Gap, Ore., about 30 miles. J. R. Holman, Portland, Ore., is Ch. Engr.

Oregon—Southern Pacific Co.—Plans are being considered by this company for the electrification of its line from Wilson to Corvallis, Ore., about 43 miles. William Hood, San Francisco, Calif., is Ch. Engr.

California—Castro Point Ry. & Terminal Co.—This company has been granted permission to construct a two-mile railway along the waterfront in Richmond, Calif. Estimated cost, $90,000. Blake Bros. is interested.

California—Tidewater Southern Ry.—This company will extend its railway through Ceres to Turlock, Calif. J. H. Wallace, Stockton, is Ch. Engr.

Alberta—Athabasca & Ft. Vermillion Ry.—This company has started surveys for the construction of its proposed railway from Athabasca to Trout Lakes and Ft. Vermilion, about 300 miles. Noted Apr. 29.

Manitoba—H. W. Adcock, Winnipeg, is interested in the project to construct a gasoline-operated street car line from Winnipeg to Transcona.

LIGHT, HEAT AND POWER

Sorrento, Maine—It is reported that the town is considering the installation of an electric-lighting system.

Brandon, Vt.—It is reported that the Hortonia Power Co., Brandon, has applied to the Public Service Commission for authority to increase its capital stock, and to issue $600,000 in bonds. The company plans to build a power house in Hortonville.

Hartford, Conn.—The Hartford Electric Light Co. has taken out a permit for the construction of a brick and steel substation on Vandyke Ave. The estimated cost is $7000.

Felts Mills, N. Y.—(Official)—See item under "Miscellaneous."

✚New York, N. Y.—(Borough of Bronx)—Bids were received June 21 by the Department of Education for heating and ventilating apparatus in new Public School 55, St. Paul's Pl. between Park and Washington Ave., Borough of the Bronx, as follows: Blake & Williams, $68,690; D. J. Rice, $70,653; Raisler Heating Co., $73,000; LESLIE & TRACY, 220 West 42d St., New York, $66,530 (awarded contract); Wells & Newton, $68,841.

Stockport, N. Y.—The Public Service Commission has granted a franchise to the Albany Southern R.R. Co. to build transmission lines and install a distribution system for furnishing electricity to the town of Stockport. George F. Silvia, Albany, is Elec. Supt. of the Albany Southern R.R. Co.

✚Philadelphia, Penn.—(Official)—The Board of Public Education has awarded contracts in connection with the construction of new wings to the John Hay School as follows: Heating and plumbing, S. FAITH & CO., 2427 Pennsylvania Ave., Philadelphia, at $15,777 and $3867 respectively; electrical work, J. F. BUCHANAN & CO., 1228 Race St., Philadelphia, $2666; ventilating, WALTERS, PURKS & MELLON, 1835 Ludlow St., Philadelphia, $1285. See item under "Buildings."

Smethport, Penn.—The Borough Council has granted a franchise to the Kane Electric Light & Power Co., Kane, to extend its transmission lines to Smethport to furnish electricity to the town.

Norton, Va.—It is reported that the Norton Coal Co. will rebuild its power house which was recently destroyed by fire at a loss of about $25,000.

Spring Hope, N. C.—The Eastern Carolina Light & Power Co., Spring Hope, will establish a hydro-electric plant on the Tar River, and will build transmission lines to several neighboring towns. The plant will eventually develop 2000 hp., the first installment to be a 250-hp. unit.

Tuscaloosa, Ala.—The Birmingham-Tuscaloosa Ry. & Utilities Co., Birmingham, plans to construct a gas holder with a capacity of 100,000 cu.ft., in Tuscaloosa. The company will also lay new mains.

★New Orleans, La.—The lowest bid received June 9 by the Board of Commissioners, Port of New Orleans, for electric cranes for the cotton warehouses was that of the Hauling Co., of Milwaukee, Milwaukee, Wis., at $65,800. Bids were received at the same time for three horizontal boilers for the cotton warehouse from: John H. Murphy Iron Works, $6440; Walsh & Weidner Boiler Co., $6190; Casey-Hagis Co., Chattanooga, Tenn., $7200; A. Baldwin & Co., Ltd., $8038. Bids were referred to the consulting engineers. Noted May 27.

Batesville, Ind.—See item under "Water Supply-Irrigation."

Elgin, Ill.—James B. Dibelka, State Arch., 130 North Fifth Ave., Chicago, is reported to be preparing plans for the construction of a power house for the State Hospital at Elgin.

Mechanicsburg, Ill.—It is reported that the Decatur Ry. & Light Co., Decatur, will extend its lines to Mechanicsburg to supply electricity to the town.

Wautoma, Wis.—Bids will be received until 7:30 p.m., July 2, by T. Taylor, Clk. of School Bd., for heating plant for the public school building. W. G. Kirchoffer, Madison, is Engr.

Wilton Junction, Iowa—(Official)—The City of Wilton contemplates the installation of additional generating machinery in the municipal electric-light plant. David G. Fisher & Co., Davenport, is Engr.-in-Charge. Noted May 27.

Lakefield, Minn.—The citizens have voted to issue $31,000 in bonds for the purpose of installing an electric-light and power plant.

Warren, Minn.—The Electric Light & Water Commission is considering plans to double the output of the municipal electric-light plant. W. R. Haney is Mgr., Supt. and Cont. Agt. of the plant.

Burlington, Kan.—The Excelsior Milling Co., Burlington, is considering the establishment of a hydro-electric plant on the Neosho River.

Bosworth, Mo.—Henrici, Kent & Lowry, Reserve Bank Bldg., Kansas City, has been engaged to prepare plans for the construction of the proposed electric light plant in Bosworth.

Rule, Tex.—The Board of Local Improvements is considering the installation of an electric-light plant in Rule. The estimated cost is $10,000.

Boswell, Okla.—The town is considering the installation of a municipal electric-light plant. The estimated cost is $14,000.

Bracebridge, Ont.—It is reported that the Hydro-Electric Commission, Bracebridge, will rebuild its dam at Bayville, Ont. The estimated cost of the work is $12,000.

Penticton, B. C.—It is reported that the city will spend about $6000 in improving and extending the electric-lighting system.

BRIDGES

Enosburg Falls, Vt.—(A correction)—We are advised that in the list of bidders for a bridge at Enosburg Falls, noted in the issue of June 17, the bid given as that of the Concrete-Steel Engineering Co., at $12,045, should have been credited to the Rennell Construction Co., New York. The Concrete-Steel Engineering Co. is consulting engineer only.

Boston, Mass.—Press reports state that the Boston Elevated Ry. Co. plans to construct a railway bridge over the Mystic River.

Bridgeport, Conn.—At the election held June 20 the citizens voted in favor of constructing bridges at East Washington Ave. and Grand St.

✚Manchester, Conn.—The contract has been awarded to the STANDARD ENGINEERING CO., Albany, N. Y., for the construction of a bridge over the Hockanun River.

New York, N. Y.—(Borough of Bronx)—The War Department has authorized the Public Service Commission to build a new bridge across the Bronx River at Westchester Ave. The plans call for a bridge with a clearance of 61 ft. above mean high water. The river above Westchester Ave. will be closed to navigation by masted vessels unable to pass under the proposed bridge. F. J. H. Kracke is Comr. of Bridges. Noted June 17.

Utica, N. Y.—The City Council has voted to construct bridges over the Mohawk River, at North Genesee St. and Miller Rd.

Trenton, N. J.—The New Jersey Harbor Commission has filed a report with the United States Army Engineers condemning the old Central R.R. bridge over Newark Bay connecting Elizabeth and Bayonne. To replace the present bridge would cost the railroad approximately $2,000,000.

Easton, Penn.—Bids will be received until July 2 by the Board of Commissioners of Northampton County for the construction of County Bridge No. 179, over Oughoughton Creek in Washington Township. H. C. Dilliard is County Engr.

✚Grove City, Penn.—(Official)—The Board of Commissioners of Mercer County has awarded the contract for the construction of the Pine Ave. Bridge over Wolf Creek, Grove City, to the PENN BRIDGE CO., Beaver Falls, at $6150. Other bidders were: Canton Bridge Co., Canton, Ohio, $7987; Farris Bridge Co., Pittsburgh, $7541; T. F. Hungiville, Smethport, $8120; F. S. Wilson, Kittanning, $7874. H. C. Comstock is Clk. of Comrs. Noted June 10.

✚Philadelphia, Penn.—(Official)—Bids will be received until noon, July 8, by M. L. Cooke, Dir. Dept. of Pub. Wks., for the construction of three bridges, one each on line of Fifth St., Third St. and Fisher Ave. Plans and specifications are on file at the office of "Engineering News," 36th St. and 10th Ave.

Scranton, Penn.—Press reports state that Charles E. Ryder, Ch. Engr. of the State Water Supply Comn., has recommended that the Delaware & Hudson Co. be compelled to rebuild its South Washington Ave. railway bridge. The bridge is too low, and fails to conform in other respects to the specifications of the Water Supply Commission. The approximate cost was $25,000.

Somerset, Penn.—Bids will be received until 1:30 p.m., July 7, by the Board of Commissioners of Somerset County for the construction of five stone or concrete bridges. Jacob Koonta is County Controller.

Bowling Green, Va.—(Official)—Bids will be received until noon, July 8, by the Board of Supervisors of Caroline County for the construction of the following bridges: One 145-ft. steel bridge over the South River; a 44-ft. span over Temples Mill Stream; a 36-ft. span over Big Swamp, and a 60-ft. bridge over Smoots Mill Pond. The last three will be of reinforced concrete with plain concrete substructures. G. P. Coleman, Richmond, is State Highway Comr.

Richmond, Va.—Bids will be received until 11 a.m., July 8, by G. P. Coleman, State Highway Comr., for the construction of a 71-ft. steel bridge over the Cranes Nest River between Wise and Dickenson Counties, and an 81-ft. bridge over the Cranes Nest River in Dickenson County.

Huntington, W. Va.—Bids will be received until July 6 by the Cabell County Court for the construction of a bridge over the right-of-way of the Chesapeake & Ohio Ry. near Mud River.

Lewisburg, W. Va.—Press reports state that bids will be received until July 6 by J. S. Crawford, Clk. of County Court, for constructing three concrete or steel bridges, two 20-ft. and one 16-ft. span.

Gulfport, Miss.—Bids will be received until July 5 by John J. Murphy, Clk. Bd. Supv., for constructing Rutland Bridge over the Big Biloxi River near Wortham on the public road from Gulfport to Bend.

Knoxville, Tenn.—Press reports state that the Commissioners of Knox County contemplate an expenditure of $21,700 for repairing county bridges.

Frankfort, Ky.—Bids will be received until July 6 by the County Clerk for constructing a 70-ft. steel bridge, 16-ft. wide, f.o.b., Paducah.

✚Cincinnati, Ohio—The contract for the construction of the Park Ave. Bridge over Kemper Lane has been awarded to D. P. FOLEY, Cincinnati, at $125,355. Noted May 20 and June 17.

✚Cleveland, Ohio—The Board of Control has awarded the contract for the construction of a concrete culvert over Doan Brook in Rockefeller Park to C. A. WHITE CO., at $15,300.

Cleveland, Ohio—Bids will be received until 10 a.m., July 14, by E. G. Krause, Clk. of the Cuyahoga County Comrs., for the construction of a reinforced-concrete pipe bulkhead, per report No. 3537. W. A. Stinchcomb is Engr.

✚Dayton, Ohio—The Board of Commissioners of Montgomery County has awarded contracts for the Harshmanville Bridge over the Mad River to FRANCIS MINNIGAN, at $11,883 for the concrete substructure, and to the CENTRAL STATES BRIDGE CO., Indianapolis, Ind., at $11,100 for the steel superstructure.

Youngstown, Ohio—(Official)—Bids will be received until 10 a.m., July 14, by the Board of Commissioners of Mahoning County for repairing and rebuilding the pavement of the South Ave. Bridge, Youngstown. Frank H. Vogan is Clk. of Comrs.

✚Brownsville, Ind.—(Official)—The Board of Commissioners of Union County, Liberty, has awarded the contract for the construction of an extension and approach to a bridge over the Whitewater River at Brownsville to the VINCENNES BRIDGE CO., Vincennes, at $7084. Noted June 17.

Fowler, Ind.—Bids will be received until July 6 by the Commissioners of Benton County for the construction of three concrete bridges. W. Mankey is County Audr.

Indianapolis, Ind.—The Board of Public Works has approved plans of the Candalia R.R. for the extension of the Vincennes and St. Louis Division Bridges across the White River.

✚Grand Rapids, Mich.—The Board of Public Works has awarded contracts for the construction of the Coldbrook Creek Culvert and a bridge at First St., N. W., to the CARPENTER CONSTRUCTION CO., at $3800 and $2433 respectively.

Lansing, Mich.—(Official)—Bids will be received until noon, July 9, by Frank F. Rogers, State Highway Comr., Lansing, for the construction of six trunk line highway bridges, from 40 to 130 ft. long.

Sioux City, Iowa—The City Council contemplates the construction of a concrete bridge over the Sioux River at North Riverside.

Hartland, Minn.—Bids will be received until July 12 by Frederick Tavis, County Audr., for the construction of State Bridge No. 1814, including the removal of the present bridge and the maintenance of a temporary crossing.

✚Kansas City, Kan.—The City Commissioners have awarded the contract for the construction of a reinforced-concrete viaduct at 18th St. over the Union Pacific, and the Chicago, Rock Island & Pacific R.R. to the AMERICAN STEEL CO., at $115,800.

Madison, Neb.—Bids will be received until 1 p.m., July 6, by the Board of Commissioners of Madison County for the construction of one 60-ft. and one 24-ft. bridge, both in Fairview Precinct. W. T. Hodson is County Clk.

Bismarck, N. D.—Bids will be received until July 8 by T. E. Flaherty, County Clk., for the construction of seven reinforced-concrete culverts.

Jamestown, N. D.—Bids will be received until July 2 by Andrew Blewitt, County Clk., for the construction of reinforced-concrete culverts.

Williston, N. D.—Bids will be received until July 15 by M. H. Aaon, County Audr., for the construction of bridges for one year.

✚Jefferson City, Mo.—The Commissioners of Cole County have awarded the contract for constructing a bridge across the Moniteau River west of Marion between Cole and Moniteau Counties to the KANSAS CITY BRIDGE CO., Kansas City, at $5779. Other bidders were: Miller & Borcherding, St. Louis, $6500; Missouri Bridge & Iron Co., $6285; Illinois Steel Bridge Co., $5978; Vincennes Bridge Co., $5876.

Dallas, Tex.—An election will be held July 24 to vote on the question of issuing $150,000 in bonds. The proceeds will be used for the construction of a bridge across the Trinity River at the Commerce St. Crossing. Noted June 24.

Ft. Worth Tex.—The Commissioners Court of Tarrant County contemplates an expenditure of approximately $8000 for the reconstruction of the Park St. Bridge.

✚Houston, Tex.—The contract for the construction of a railroad bridge over the Brazos River for the Houston, Richmond & Western Traction Co. has been awarded to the FEDERAL BRIDGE CO., Des Moines, Iowa, at $56,000.

✚Laredo, Tex.—(Official)—The Street and Bridge Committee of the City Council has awarded the contract for the construction of two reinforced-concrete bridges over Zacate and Chacon Creeks to A. G. RANNEY, San Antonio, at $11,555. Other bidders were: Topeka Bridge & Iron Co., $12,251; Mas & Vasquin, $13,250; C. Jeffries, $15,300. J. S. Westbrook is Chn. of Com. Noted June 3.

Challis, Idaho—At a recent election the citizens of Custer County voted in favor of issuing $35,000 in bonds, the proceeds of which will be used for constructing five steel bridges.

✚Mayfield, Wash.—(Official)—The contract for constructing the steel bridge across the Cowlitz River at Mayfield has been awarded to the BEERS BLDG. CO., Portland, Ore., at $28,888. In all, 21 bids were received. Noted Jan. 28 and June 3.

Seattle, Wash.—The Board of Public Works has instructed the City Engineering Department to begin the construction, by day labor, on the approaches of the Salmon Bay Bridge across the Lake Washington Canal. The City Council has appropriated $90,000 for the work. Noted June 10 and 17.

Seattle, Wash.—Bids will be received until 10 a.m., July 12, by the Board of Commissioners of King County for the construction of the Fall City Bridge. It will be of steel with concrete piers. The estimated cost is $27,000. A. P. Denton is County Engr. Byron Phelps is Clk. of Comrs.

COLUMBIA RIVER INTERTSTATE BRIDGE

The itemized bids for various contracts awarded for the construction of the Interstate Bridge, illustrated on p. 1218, "Engineering News," June 24, across the Columbia River, connecting Portland, Ore., and Vancouver, Wash., are as follows:

Superstructure metal work of the main river bridge—

United States Steel Products Co.		Porter Bros.	
Manufacture and Delivery		Erection	
12,924,000 lb. truss spans	2.59c.	12,924,000 lb. truss spans	0.55c.
822,000 lb. towers	3.43c.	822,000 lb. towers	0.90c.
620,000 lb. rails, etc.	2.755c.	620,000 lb. rails, etc.	0.40c.
318,000 lb. sheaves	10c.	318,000 sheaves	1.25c.
2 motors (lump sum)	$4325	2 motors (lump sum)	$200
6 switchboards (lump sum)	456	6 gasoline engines	200
7 gasoline engines (lump sum)	728	Electric wiring (lump sum)	3100
		Operator's house	2100
		Gate tender's house	700
		621 cu.yd. counterweights	14
Extended totals	$417,316	Extended totals	$99,829

Superstructure metal work to sloughs—

Northwest Steel Co.		Porter Bros.	
Manufacture and Delivery		Erection	
3,191,000 lb. metal	2.55c.	3,191,000 lb. metal	0.55c.
259,000 lb. rails	3.00c.	259,000 lb. rails	0.40c.
Extended totals	$89,140	Extended totals	$18,886

Substructure—Pacific Bridge Co.

Main River Bridge		Sloughs	
53,50 cu. pier shafts	$9.00	2480 cu.yd. pier shafts	$10.00
109,000 lb. reinforcing metal	.03	34,000 lb. reinforcing metal	.04
15,810 cu.yd. bases	12.00	2000 cu.yd. bases	16.00
418 cu.yd. buried piers	12.00	894 cu.yd. buried piers	16.00
77,900 lin.ft. piles	.46	58,100 lin.ft. piles	.35
5900 lin.ft. dolphins	9.25	11,000 cu.yd. riprap	2.00
105 M. ft. b.m. timber ferry	30.00	21,000 sq.ft. mattress	.50
16,000 cu.yd. riprap	2.05		
34,000 sq.yd. mattress	.70		
Extended totals (Riprap)	$319,415	Extended totals (Riprap)	$119,579
(Mattress)	310,825		

Embankment of Union Ave. Approach—United States Steel Products Co.

93,000 cu.yd. embankment in place	$1.324
3000 cu.yd. ditches	.25
28,000 sq.yd. slabs	.80
1900 cu.yd. rock fills	2.00
Extended totals	$158,214

Reinforced-Concrete Floor and Pavement on Steel Structures—Porter Bros.

21,264 sq.yd. bitulithic pavement	$3.48
3254 sq.yd. sidewalk slabs	2.10
21 cu.yd. hand rails	30.00
2 bronze lamp standards	44.00
Extended totals	$82,803

✚Lebanon, Ore.—(Official)—The contract for the construction of a bridge across the South Forks of the Santiam River has been awarded to the PACIFIC IRON WORKS, Portland, at $13,461. Other bids were: Portland Bridge Co., $14,200; Beers Bldg. Co., $14,776; Illinois Steel Bridge Co., $15,380; Portland Bridge & Iron Co., $15,506; E. E. Davis Co., $16,386; A. C. O'Neil, $16,694. Noted June 17.

Portland, Ore.—The City Engineer is preparing plans for the construction of the Union Ave. Viaduct over the tracks of the Oregon-Washington R.R. & Navigation Co. The estimated cost is $50,000.

Hanford, Calif.—Bids will be received until July 6 by the Clerk of the Board of Supervisors for the construction of a reinforced-concrete bridge over the Cross Creek.

✚Martinez, Calif.—The contract for the construction of a drawbridge on Borden Rd. over the San Joaquin River has been awarded to the TIBBITS-PACIFIC CO., San Francisco, at $140,000.

Meridian, Calif.—Press reports state that bids will be asked at once for rebuilding the bridge of the Northern Electric Co. across the Sacramento River at Meridian. The bridge was damaged by floods last winter. The estimated cost of repairs is $75,000, which will be divided among the railway companies, Sutter and Colusa Counties.

★Needles, Calif.—The following are the bids received by Cate Sells, Comr. of Indian Affairs, Washington, D. C., for the construction of a steel bridge over the Colorado River at Topock, Ariz., near Needles: Kansas City Structural Steel Co., Kansas City, Mo., $61,950; Ross Construction Co., Sacramento, Calif., $94,872; Security Construction Co., Los Angeles, Calif., $71,859; Graff Construction Co., Seattle, Wash., $83,1[illegible] S. B. Harding, Chicago, Ill., $78,900 (informal); Virginia Bridge Co., Roanoke, Va., $70,100; Missouri Valley Bridge & Iron Co., Leavenworth, Kan., $71,100; Omaha Structural Steel Works, Omaha, Neb., $85,334; California Construction Co., San Francisco, Calif., $72,500; Midland Bridge Co., Kansas City, Mo., $73,900. Noted Apr. 15 and June 3.

San Jose, Calif.—Bids will be received by the Board of Supervisors, Santa Clara County, until July 6 for the construction of concrete bridges over Permanente Creek, San Thomas Creek and Calabasas Creek on the Homestead Rd. H. A. Pfister is Clk. of Bd.

✚Santa Rosa, Calif.—The Board of Supervisors of Sonoma County has awarded the contract for the construction of a bridge over Dry Creek to D. E. ALBERS, at $8691.

North Timiskaming, Que.—Bids will be received until July 12 by R. C. Desrochers, Secy., Dept. of Pub. Wks., for the construction of the superstructure of a four span bridge over the Quinze River.

Lansing, Ont.—The York Township Council is considering plans for the construction of a concrete bridge on Lansing Side Rd., at an estimated cost of $5000.

✚Toronto, Ont.—The Board of Control has awarded the contract for the construction of the concrete substructure and the floor of the Strachan Ave. Bridge to RODERICK CAMPBELL, at $23,045, and the contract for the steel superstructure to the DOMINION BRIDGE CO., at $5091. Noted June 10.

Dauphin, Man.—Bids will soon be received for the construction of a 100- or a 150-ft. reinforced-concrete bridge over the Valley River. J. A. Gorley is Clk.

WATER SUPPLY—IRRIGATION

Athol, Mass.—The construction of a 3,000,000-gal. reservoir is favored by Herbert L. Hapgood, Chn. Water Comrs.

✚Dartmouth, Mass.—The contract has been awarded to A. WILLIAMS & CO., 3 Catting St., Boston, at $33,153, for furnishing and laying water mains. Noted Oct. 8.

✚★Barker, N. Y.—The contract has been awarded to B. MOLINARI & CO., 453 North St., Rochester, at $19,780, for laying 4½ miles of c.-i. water mains, standpipe and sand filter, and reservoir. Charles C. Hopkins, Cutler Bldg., Rochester, is Engr. Noted Feb. 11 and Apr. 1.

Lewiston, N. Y.—According to press reports an election will be held to vote on the question of issuing $39,000 in bonds, the proceeds of which will be used for the construction of fire protection and a water-supply system. Noted Feb. 25.

Lockport, N. Y.—All bids received June 7 by the Board of Water Commissioners for laying water mains were rejected. Noted June 24.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., July 7, by Charles Strauss, Pres., Bd. of Water Supply, Municipal Bldg., for erecting at shafts No. 11 and 21, Catskill Aqueduct, drainage equipment for unwatering the tunnel and its shafts.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., July 7, by Charles Strauss, Pres. Bd. of Water Supply, Municipal Bldg., for furnishing, delivering and installing racks, shutters, screens, lifters and other apparatus in gate chambers at Ashokan, Kensico and Hill View reservoirs.

★New York, N. Y.—(Official)—Bids were received June 22 for constructing a coagulating plant in Mt. Pleasant under Contract No. 159, as follows: Guarantee Construction Co., 140 Cedar St., New York, $21,480; James McArthur Co., $32,875; F. N. Lewis, $27,150; Snare & Triest, $29,850; M. L. Bird, $37,000; H. H. Vought & Co., $21,871; N. E. Construction Co., $29,327; Charles Meads, $27,117. Noted June 10.

New York, N. Y.—(Official)—Bids were received June 22 by the Board of Water Supply for furnishing and delivering and installing bronze or steel ladders and nozzles from Charles Meads, $23,280, and the Concord Construction Co., 38 Park Row, New York, $22,565. Noted June 10.

✚New York, N. Y.—(Boroughs of Manhattan and the Bronx)—(Official)—The contract has been awarded to the BUILDERS' IRON FOUNDRY, Providence, R. I., at $18,850, by the Department of Water Supply, Gas and Electricity for furnishing venturi meter tubes and recording apparatus for connections from the Catskill supply. Noted June 24.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by William Williams, Comr., Water Supply, Gas and Electricity, Municipal Bldg., Manhattan, until 2 p.m., July 12, for making the necessary alterations and improvements at new Utrecht Pumping Station, Ave. V and East 14th St., and converting same into a distribution station.

Patchogue, N. Y.—The citizens contemplate establishing a fire district in West Patchogue at an estimated cost of $60,000. Walter E. Sexton, Mineola, is Engr.

✚★Lock Haven, Penn.—(Official)—Bids were received June 14 for constructing storage dam No. 1 on McElhattan Run, as follows: CHARLES DUGAN, Williamsport, $8716 (awarded contract); C. J. Carroll, $10,976; John C. Schrade, $11,407; McNervey Construction Co., $10,903; R. B. Taylor, $8520; Otto Paving & Construction Co., $10,792; E. C. Williams, $11,276; Fogel & Co., $10,078; Cecil N. Harrart, $8849; Horn & Devling, $11,340. H. P. Shoemaker is City Engr. Noted May 27.

✚Frederick, Md.—The contract has been awarded to BRADY BROS., Frostburg, at $4153, by the city for constructping a pipe line from Fishing Creek to the city. Contracts for pipe and valves were awarded to R. D. WOOD & CO., Philadelphia, Penn., for valves and to H. C. BROOKS, Martinsburg, W. Va., at $11,304 for pipe. Noted Oct. 29 and May 13.

Matewan, W. Va.—Bonds for $12,000 have been voted by the citizens, part of the proceeds of which will be used for the construction of a filtration plant. J. S. Albert is Town Recdr.

✚Walterboro, S. C.—The contract has been awarded to the HUGHES ARTESIAN WELL CO., Charleston, for driving a 1600 ft. artesian well and for pipe. Noted Feb. 18 and Apr. 22.

Cartersville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $5000 in bonds, the proceeds of which will be used for the extension of the water and fire protection systems. W. W. Doniel is City Engr.

Dawson, Ga.—The citizens voted against issuing $20,000 in bonds, the proceeds of which was to have been used for the extension of the water system. Noted May 27.

McGhee, Ala.—Improvements will be made to the water system and electric-light plant at an estimated cost of $65,000, bonds for which have been voted. J. J. Simmons is Mayor. Noted Mar. 25.

Maryville, Tenn.—Bids will be received until July 7 by the city for the construction of a water system including a filtration plant. Samuel Everett is Mayor and R. C. Huston & Co., Falls Bldg., Memphis, is Engr. Noted Mar. 25 and Apr. 29.

Ashtabula, Ohio—The Council contemplates issuing bonds for $250,000, the proceeds of which will be used for the construction of a water system.

+Cincinnati, Ohio—(Official)—The contract has been awarded to M. J. McCARTHY, Cincinnati, at $23,735, for laying water mains in Eighth St., Broadway and Reading Rd. for the high pressure fire service Other bidders were: Kirchner Sons Co., $26,090; H. V. Crumley, $29,100; M. F. Quill, $28,370; Thomas P. Strack, $32,245. Edward P. Durr is Secy., Dept. of Pub. Safety. Noted June 17.

+Cincinnati, Ohio—The contract has been awarded to M. F. QUILL, Cincinnati, at $24,324, by the city for laying c.-i. water mains in Tennessee Ave. Noted June 17.

+Cleveland, Ohio—The contract has been awarded to the CLEVELAND MACADAM CO., at $20,450, by the Board of Control for furnishing sand and gravel for the Division Ave. filtration plant. Noted May 6.

East Liverpool, Ohio—(Official)—It is stated that bids will be received in July for the construction of a water system. Bonds for $375,000 have been voted. Chester & Fleming, Pittsburgh, Penn., is Engr. Noted June 3.

Grafton, Ohio—It is reported that C. J. Fitzgerald, Elyria, is interested in the construction of a water system.

Shadyside, Ohio—Bids will be received until July 9 by the Board of Trustees of Public Affairs for constructing a water system. Fred McConn is Clk. Noted Feb. 25.

Batesville, Ind.—Bids will be received until 2 p.m., July 2, by the Batesville Water-Works Co. for constructing an earth dam 250 ft. long by 12 ft. high with a reinforced-concrete face and for laying 5000 ft. of 8-in. c.-i. water mains and constructing 9000 ft. of electric transmission line. Charles Brossmann, Indianapolis, is Engr. Noted June 4.

Mancelona, Mich.—Bonds for $15,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system.

Atkinson, Ill.—A. M. Morgan, Chicago, is preparing plans for the construction of a water system. The estimated cost is $18,000.

Chicago, Ill.—Bids will be received until 11 a.m., July 8, by the Department of Public Works for furnishing a water-tube boiler with super-heaters at Central Park Ave. pumping station No. 5.

Warsaw, Ill.—Extensions will be made to the water system at an estimated cost of $19,000. A. M. Morgan, Chicago, is Engr.

+Fond du Lac, Wis.—The contract has been awarded to the AMERICAN CAST IRON PIPE CO., Minneapolis, Minn., at $16,000, for furnishing c.-i. water pipe.

Madison, Wis.—The Water Department contemplates laying feeder mains at an estimated cost of $10,000.

Sauk City, Wis.—The citizens contemplate spending $10,000 for the construction of a water system.

Chariton, Iowa—Plans have been prepared by M. G. Hall, Centerville, for the construction of a water system. The estimated cost is $65,000. Noted Oct. 1.

Ft. Dodge, Iowa—The city contemplates calling an election to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the improvement of the water system. W. L. Tang is City Clk.

Keota, Iowa—C. P. Chase, Clinton, is preparing plans for the construction of a water system.

+Aurora, Minn.—Contracts have been awarded to SHARP & McGUIRE for drilling a 10-in. well and to MICHAEL BOYLAN, Virginia, at $9480, for laying water mains.

+Campbell, Minn.—(Official)—The contract has been awarded to WARD & WEIGHTON, Sioux City, Iowa, at $4180, for constructing a pressure water system. J. F. Druar, Commercial Bldg., St. Paul, is Consult. Engr.

Duluth, Minn.—The Buffalo Meter Co., Buffalo, N. Y., at $4320, was low bidder for furnishing 800 water meters. Noted June 10.

+Moorehead, Minn.—(Official)—The contract has been awarded to the AMERICAN BRIDGE CO., Minneapolis, at $18,000, by the City Clerk for constructing a 300,000-gal. elevated steel tower. Edward P. Burch, Plymouth Bldg., Minneapolis, is Consult. Engr. Noted June 17.

Thief River Falls, Minn.—Bids will be received until 8 p.m., July 6, by E. J. Overland, City Clk., for furnishing material and for the repair of 8000 ft. of 6-in. water mains.

Sterling, Neb.—The citizens voted against issuing bonds for $15,000, the proceeds of which was to have been used for the installation of a water system. Noted May 6 and June 10.

Canova, S. D.—(Official)—Bonds for $9500 have been sold, the proceeds of which will be used for the construction of a water system. H. H. Schulte is Town Clk. Noted May 20 and June 3.

Cheyenne, Wyo.—Bids will be received until noon, July 6, by J. J. Showalter, City Clk., for constructing a rapid-sand filtration plant at Round Top reservoir. The estimated cost is $70,000. R. D. Goodrich is City Engr.

Powell, Wyo.—Bids will be received until July 6 by W. A. Deming, Town Clk., for constructing a gravity water system. The work includes seven miles of 10-in. supply line and three miles of distribution lines. G. H. Setham, Denver, Colo., is Engr. Noted Nov. 5 and Mar. 18.

Fromberg, Mont.—Bonds for $17,500 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. B. T. Ellis, Billings, is Engr. Noted Feb. 11 and Mar. 11.

Missoula, Mont.—An election will be held Aug. 3 to vote on the question of issuing $500,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Feb. 11.

+Sidney, Mont.—The contract has been awarded to BENDON, REED & JONES, Sidney, at $17,413, by the Council for constructing a distributing system in Special Improvement District No. 1.

Wibaux, Mont.—(Official)—Bids will be received until 8 p.m., July 10, by J. R. Quammel, Town Clk., for the purchase of $27,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted June 6.

Beaumont, Tex.—Bids will be received until 10 a.m., July 14, for constructing a 30-in. c.-i. pipe line across Neches River and for other improvements. Burns & McDonnell, Kansas City, Mo., is Engr.

Elgin, Tex.—An election will be held July 16 to vote on the question of issuing $11,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted June 24.

Claremore, Okla.—(Official)—The City Council has voted against issuing bonds for $10,000, the proceeds of which was to have been used for the installation of a filtration plant. Noted June 3.

Denver, Colo.—The Council will be asked by A. Lincoln Fellows, Pres. Pub. Utilities Comn., to appropriate $100,000 to make a survey for the construction of a new municipal water system.

St. Maries, Idaho—Plans are being prepared for the construction of a water system, the estimated cost of which is $30,000. Charles R. Schulte is City Clk. Noted Oct. 1.

+Salt Lake City, Utah—(Official)—The contract has been awarded to P. J. MORAN, INC., 152 West Second St., Salt Lake City, at $18,209, for constructing a reinforced-concrete reservoir. Other bidders were: J. W. Mellen, $18,284; John Holt, $18,975; Mullins & Palm, $19,360; O. H. Gray & Co., $19,487; Heuser, Sim & Vorkink, $19,765; Ryberg Bros., $21,129; Gibbons Bros. & Reed Parrott Bros. Co., $21,873; Campbell Building Co., $22,259; John Shea, $22,653; Lynch Construction Co., $23,004; Midland Bridge Co., $28,677. Noted June 17.

+Everett, Wash.—The Snohomish County Commissioners have warded the contract to GEORGE WRIGHT, Tacoma, for constructing an irrigation system in District No. 4, at $38,838. Other bids were: Tacoma Dredging Co., Tacoma, $35,991; West Chester Construction Co., Marion Block, Seattle, $39,393; Booker, Kiehl & Whipple, Central Bldg., Seattle, $39,996; Chamberlain Construction Co., Globe Bldg., Seattle, $40,111.

+Seattle, Wash.—The contract has been awarded to G. ARGENTIERI & CO., 989 Ranier Ave., at $10,000, for laying water mains in Fifth Ave. W. Noted June 24.

Bandon, Ore.—(Official)—Bonds for $80,000 have been voted by the citizens, the proceeds of which will be used for the extension of the water system. Noted June 3.

Eastside, Ore.—The installation of a municipal water system is under consideration. The estimated cost is $20,000.

North Bend, Ore.—The water rights of the Pony Inlet watershed will be acquired by the city to furnish water for the proposed municipal water system.

+Imperial, Calif.—(Official)—The contract has been awarded to W. J. BATTWICK, Imperial, at 11⅞c. per sq.ft. for constructing 41,809 sq.ft. of floor and lining for the irrigation system. Noted June 3.

McKittrick, Calif.—The Producers' Transportation Co. will install a 4-in. and 6-in. water main between Buttonwillow and Olig, about 13 miles.

+Pasadena, Calif.—The contract has been awarded to THEODORE L. SYCERTSON, 434 Maple Way, at $19,617, for making extensions to the water system in the Linda Vista District. Noted May 27 and June 24.

+★Peterboro, Ont.—(Official)—The contract has been awarded to the DELAVAL DAIRY SUPPLY CO., Petersboro, at $15,850, for furnishing a 6,000,000-gal. pumping unit for the water-works. Noted May 13.

+Selkirk, Man.—The contract for constructing a steel tower tank for the hospital for the insane has been awarded to the CHICAGO BRIDGE & IRON WORKS, Bridgeport, Ont., at $7300.

SEWERS

Portland, Maine—Bids will be received until July 6 by the Board of Public Works for the construction of 3710 ft. of 8-, 10- and 12-in. pipe sewers. The estimated cost is $18,000. B. Bradley, Jr., is Comr. of Pub. Wks. Noted June 17.

Derry, N. H.—The city will issue $25,000 in bonds, the proceeds of which will be used for the construction of a sewer system and a sewage-disposal plant. Dudley & Sawyer, Manchester, is Engr. Noted Apr. 1.

+Boston, Mass.—The contract for the construction of sewers and drains in Randolph and Rock Rd.; in Rosewood and Oakland St., Dorchester, has been awarded to JOHN GUARINO, at $6353. Noted June 3.

Pittsfield, Mass.—The Board of Aldermen has passed an ordinance appropriating $25,000 for the construction of sewers.

Westfield, Mass.—It is reported that bonds for $12,000 have been sold, the proceeds of which will be used for the construction of sewers. Noted June 3.

New Haven, Conn.—The city contemplates issuing $110,000 in bonds, the proceeds of which will be used for the construction of the Whalley Ave. sewer which provides for the construction of an outlet sewer system in the Westville School District. Noted Apr. 1.

Binghampton, N. Y.—The City Council has approved plans for sewer construction in the Fourth Ward.

Herkimer, N. Y.—Bonds for $30,000 have been sold. The proceeds will be used for the construction of extensions to the sewer system.

✚Newburg, N. Y.—The contract has been awarded to JAMES L. KEHOE, at $6204, for the construction of the Bridge St. sewer. Noted Apr. 22.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received June 24 by the Borough President for the construction of sewers and appurtenances in Tyndall Ave. and for improving the roads in Mosholu Ave., as follows: Estates Contracting Co., $35,289; DiMinna & DeBlasio, $31,981; Soraci Contracting Co., $36,976; Delson Contracting Co., $33,852; Simon Russick, $32,831; P. DiMinna Contracting Co., $39,890; Spadaro Contracting Co., $30,461; Anita Contracting Co., $35,101; P. J. Duffy, $35,740; Harris Rose Construction Co., $31,347; Kingsbridge Contracting Co., $40,667; O'Roth Contracting Co., $40,793; Gasperini & DeBasio, $34,497; Briggs & McLoughlin; $36,657; A. Mansini, $33,666; S. Amanna & Sons, $34,154.

New York, N. Y.—(Borough of Manhattan) — (Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., July 9, for constructing a tunnel relief sewer in East 41st St. and Madison Ave., also for improving sewer in Wall St.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received June 23 by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Polk Ave. from 51st St. to Junction Ave., Second Ward, as follows: Stanhope Contracting Co., $34,602; A. Paino, $32,190; Peace Bros., $36,843; Evergreene Construction Co., $34,595; C. Nally, $31,555; Lincoln Steel Co., $34,948; Clancy & Van Alst, $27,569. Noted June 17.

Port Washington, N. Y.—The city contemplates the construction of a sewer system. The estimated cost is $125,000.

Syracuse, N. Y.—(Official)—Bids will be received until 1:30 p.m., July 12, by Robert D. Roney, Secy. Bd. of Contract and Supply, for the construction of the Huntley System No. 2. The estimated cost is $112,000. W. Thomas Wooley is City Engr. Noted May 6.

Avalon, N. J.—Bids will be received until July 12 by Gilbert S. Smith, Mayor, for the construction of approximately 14,000 ft. of 12- to 20-in. c.i. or vitrified pipe sewers. Ralph L. Goff, Ocean City, is Engr.

Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., July 6, by the Hudson County Park Commissioners for vitrified pipe and specials and c.i. catch basin heads for North Park and North Bergen.

Erie, Penn.—(Official)—The information published in the issue of June 17 was incorrect. The city proposes to issue bonds for the construction of a number of short lines of storm sewers, and for reconstructing several old sewers. B. E. Briggs is City Engr. Noted June 17.

✚Montrose, Penn.—(Official)—The contract for the construction of a sewage-disposal plant has been awarded to the NEW YORK SEWAGE DISPOSAL CO., New York, N. Y., at $7063. Noted June 24.

New Kensington, Penn.—An election will be held Aug. 3 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of sewers and for street improvements.

Philadelphia, Penn.—Bids will be received until July 13 by the city for the enlargement and relocation of the sewers in Buttonwood St. in connection with the Broad St. Subway work. A Merritt Taylor, Dir. of Transit, is in charge. Noted Dec. 17.

Norfolk, Va.—An appropriation of $8000 has been authorized, the proceeds of which will be used for the construction of the Newton's Creek drain. W. T. Brooke is City Engr.

Matewan, W. Va.—Bonds for $12,000 have been voted, the proceeds of which will be used for the construction of sewers. J. S. Albert is Town Recdr.

Charlotte, N. C.—The city contemplates the construction of lateral sewers in various wards. The estimated cost is $141,-085.

Cartersville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of sewers. W. W. Daniel is City Engr. Noted June 24.

Savannah, Ga.—An election will soon be held to vote on the question of issuing $400,000 in bonds. The proceeds will be used for the construction of a storm water sewer system. E. R. Conant is Ch. Engr.

New Orleans, La.—The lowest bid submitted for the construction of a sewer system at the new cotton warehouses was that of L. M. Dalgarn, at $15,936. Ford, Bacon & Davis, New Orleans, is Engr.

Cleveland, Tenn.—(Official)—Bids will soon be received by the city for the construction of a sewer system. The estimated cost is $75,000. Walter G. Kirkpatrick is Engr. Noted June 24.

Knoxville, Tenn.—The city contemplates the construction of lateral sewer in the Tenth Ward. The estimated cost is $5000.

Cincinnati, Ohio—Bids will be received until noon, July 9, by Philip Fosdick, Dir. of Pub. Ser., for the construction of main and lateral sewers and drains with appurtenances in Seitz, Dorsey and Goethe St.

✚Cleveland, Ohio—The contract for the construction of sewers in Sandusky Ave. from East 93rd to East 102nd St. has been awarded to the LAKE ERIE PAVING & CONSTRUCTION CO., at $17,697. Noted June 24.

Cleveland, Ohio—Bids will be received until noon, July 7, by the Commissioner of Purchases and Supplies for the construction of approximately 7500 lin.ft. of 6-ft. brick sewers in tunnel, under two contracts. Robert Hoffman is City Engr.

✚Cleveland, Ohio—Contracts have been awarded by the Board of Control to WILLIAM McDOWELL & SON CO., at $17,000, for the construction of a sewer in Spring Rd., S. W., and to J. C. DEVINE CO., at $9500, for the construction of a diversion sewer, junction overflow, and grit chamber, also wooden flumes at the sewage treatment works, West 117th St. and Lake Shore.

Geneva, Ohio—Plans are being prepared by the City Engineer for the construction of sewers in Baline and Orchard St.

✚Frankfort, Ind.—(Official)—The contract for the construction of the South West District sanitary sewer and the South West Local sanitary sewer has been awarded to C. C. HUFTINE & CO., Frankfort, at $2678 and $4348, respectively.

✚Logansport, Ind.—The contract for the construction of a sanitary sewer in Broadway has been awarded to GILLION & GIRTON, at $5752.

Markle, Ind.—Plans have been prepared by Thomas Driggles for the construction of a sewer system.

Muncie, Ind.—Bids will be received until 10 a.m., July 3, by the city for the sewer construction.

Winchester, Ind.—Bids will be received until 8 p.m., July 7, by M. R. Chenoweth, City Clk., for the construction of sewers in various streets.

Chicago, Ill.—Michael Pontarelli, 2349 Greenleaf Ave., and Henry J. McNichols, 209 South La Salle St., submitted the lowest bids for the construction of 14 miles of brick sewers in the Norwood and Edison Park Section, to be known as the Argyle St. sewer system. The estimated cost is $683,000. Noted June 3.

Peoria, Ill.—Bids will be received until July 12 by the Board of Local Improvements for the construction of the South End Sewer, East Section. The estimated cost is $221,-279. Noted Sept. 3.

Springfield, Ill.—The city contemplates the construction of sewers in various streets.

Warsaw, Ill.—Plans are being prepared by A. M. Morgan, Chicago, for the construction of a sewer system. The estimated cost is $28,500.

Sheboygan, Wis.—Bids will be received until July 2 by the Board of Public Works for the construction of 12,055 ft. of 12-, 10- and 8-in. vitrified pipe sewers. C. U. Boley is Comr. of Pub. Wks. Noted June 24.

Idagrove, Iowa—Plans are being prepared by G. Y. Skeels, Sioux City, for the construction of a sanitary sewer north of Odebolt Creek. The estimated cost is $7500.

Keokuk, Iowa—The city contemplates the construction of sanitary sewers in the Kilbourne's addition.

✚Duluth, Minn.—Contracts for material for sewer construction have been awarded to the DULUTH BUILDERS' SUPPLY CO., at $12,606, and the STANDARD SALT & CEMENT CO., at $12,726. Noted June 17.

Virginia, Minn.—The city contemplates the construction of storm sewers. The estimated cost is $35,000.

Hutchinson, Kan.—(Official)—Plans are being prepared by the City Engineering Department for a sewage pumping plant, and bids for the same will be called for in about two weeks.

Flandreau, S. D.—(Official)—Bonds for $4000 have been sold, the proceeds of which will be used for the construction of storm sewers. Noted June 17.

✚Sisseton, S. D.—(Official)—The contract for the construction of a sewer system and a sewage-disposal plant has been awarded to E. M. SCHEFELOW, Elgin, Ill., at $24,804. Other bids were: James Kennedy, Fargo, N. D., $29,744; Security Bridge Co., Billings, Mont., $29,768; Rimer Bros., St. Paul, Minn., $30,946; Kirtchers Bros., St. Paul, Minn., $32,518. Noted May 27.

Watertown, S. D.—Bids will be received in July for the construction of 18,500 ft. of 15-, 18-, 30- and 33-in. pipe sewers and 9700 ft. of 36-, 42- and 57-in. concrete sewers. The estimated cost is $110,000. F. W. Shreiber is City Engr. and O. M. Lane is City Audr. Noted May 27.

✚Bismark, N. D.—The contract for sewer construction in Broadway from 10th to 14th St. has been awarded to the HAGGART CONSTRUCTION CO., Fargo, at $15,108.

Chouteau, Mont.—The City Council contemplates sewer construction in District No. 6. The estimated cost is $4780. A. L. Powers is City Clk.

✚Sidney, Mont.—The contract for the construction of a main sewer has been awarded to BENDON, REEDS & JONES, Sidney, at $14,537.

Walkerville, Mont.—It is reported that the city contemplates the construction of a sewer system in the business and residence districts. The estimated cost is $25,000. M. Broughton is City Atty.

✚Italy, Tex.—The contract has been awarded to E. L. DALEON, Dallas, at $12,625, for the construction of a sewer system. Noted Mar. 11.

Marlin, Tex.—At a recent election the citizens voted to issue $45,000 in bonds. The proceeds will be used for the construction of sewers. L. Goodrich is City Engr. Noted Mar. 27.

Tulsa, Okla.—(Official)—At a recent election the citizens voted to issue $100,000 in bonds. The proceeds will be used for the construction of storm and sanitary sewers. Bids will be received about Sept. 1. T. C. Hughes is City Engr. Noted June 17.

Mountain View, Colo.—(Manitou post office)—Bids will be received until 8 p.m., July 6, by August Heimberger, Clk., for the construction of a sanitary sewer system. Peter O'Brian & Son, Denver, is Engr.

Steamboat Springs, Colo.—Plans are being prepared for the construction of a sanitary sewer system. The estimated cost is $70,000.

Trinidad, Colo.—Bids will soon be received for the sale of $75,000 in bonds. The proceeds will be used for the construction of trunk sewers and a sewage-disposal plant.

Mesa, Ariz.—The contract will be awarded about Sept. 1 for the construction of a sewer system. The estimated cost is $75,000. Noted June 24.

✚**Port Angles, Wash.**—The contract for the construction of a sewer system has been awarded to METLER & COYNE, Port Angeles, at $37,804. Noted June 24.

✚**Port Angeles, Wash.**—The contract for the construction of a sewer system has been awarded to H. A. COTTON, Port Angeles, at $38,404.

Albany, Ore.—The city will construct a main trunk sewer south on Cottage and Tekona St. The estimated cost is $10,000.

Eugene, Ore.—Plans are being prepared by the Sewer Committee for the construction of a sewer system. The estimated cost is $15,000.

Auburn, Calif.—An election will soon be held to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the improvement of the sewer system.

Imperial, Calif.—W. J. Bathric, Imperial, at $5032, submitted the lowest bid for the construction of a reinforced-concrete settling basin.

Wilmington, Calif.—Bids will be received until July 6 by the Board of Public Work for the construction of a frame pump house, 13x14 ft. over an existing concrete well, and for installing machinery at the sewage-disposal plant.

Peterboro, Ont.—Plans have been approved by the City Council for the construction of sewers in Westcott, Maude, Lansdown and Lafayette St. R. H. Parsons is Engr.

Toronto, Ont.—Bids will be received until July 6 by the Board of Control for the construction of sewers in various streets. R. C. Harris, City Hall, is Comr. of Pub. Wks.

✚**Vancouver, B. C.**—The contract has been awarded to H. P. PETERSON, 207 Holden Bldg., Vancouver, at $70,056, for the construction of the Clark Drive outfall sewer by tunnel method. Noted Apr. 22.

GARBAGE

★**Asbury Park, N. J.**—(Official)—Bids will be received until 11 a.m., July 13, by the Board of Commissioners for the collection, removal and disposal of garbage, rubbish, ashes and dead animals. Howard D. Le Roy is Comr.

Union, N. J.—(Weehawken post office)—(Official)—Bids will be received until 8 p.m., July 6, by the Town Council, for the removal of garbage for periods of one, two, three, four or five years. Emil Bantz is Town Clk.

East Chicago, Ind.—Bids will be received until July 16 by the City Clerk for constructing a garbage disposal plant.

Montreal, Que.—Bids will be received until July 15 by the City Council, according to press reports, for the construction of a garbage disposal plant. L. N. Senecal is Secy.

STREETS AND ROADS

✚**Bangor, Maine**—A contract for constructing a section of the State Highway has been awarded to SMALL & INGALLS, Bar Harbor. Noted June 10.

✚**Boston, Mass.**—The contract for laying bitulithic pavement on Ridgewood St. from Topliff to Draper St., Roxbury, has been awarded to JAMES DOHERTY, at $7659. Noted June 3.

✚**Boston, Mass.**—The contract for constructing a bituminous macadam roadway on Howitt Rd. from Bellevue to La Grange St. has been awarded to CHARLES J. JACOBS CO. Noted June 3.

★**Hartford, Conn.**—(Official)—Bids will be received until 2 p.m., July 2, by C. J. Bennett, State Highway Comr., for state road work as follows: Ashford Township, about 14,960 lin.ft. gravel on the Warrenville Rd. Bethel Township, about 6315 lin.ft. gravel on the Bridgeport-Newton Rd. Canterbury Township, about 5100 lin.ft. native stone macadam and about 1995 lin.ft. native stone resurfacing on the Westminster Rd. Glastonbury Township, about 6500 lin.ft. 2-in. bituminous macadam on the Hartford Turnpike, Killingworth Township, about 7150 lin.ft. graded on the Higganum Rd. Newtown Township, about 8040 lin.ft. native stone macadam on the Dodingtown Rd. Plainfield Township, about 6875 lin.ft. gravel on the Canterbury Rd. Sprague Township, about 1630 lin.ft. gravel on the Versailles Rd. Vernon Township, about 2675 lin.ft. 6-in. bituminous macadam on Vernon Ave.

Batavia, N. Y.—Bids were received June 17 for paving (a) Dellinger Ave., (b) Tracy Ave. as follows: W. H. Ripton, Rochester, (a) $7286, (b) $9014; H. W. Roberts, Utica, (a) $7449, (b) $9205; Whitmore, Rauber & Vicinus, Rochester, (a) $7778, (b) $9669.

Buffalo, N. Y.—Bids will be received until July 2 by Francis G. Ward, Comr. Pub. Wks., for repaving portions of Washington St.

Cohoes, N. Y.—Press reports state that bids will be received until July 9 by the Board of Estimate and Apportionment for paving Bowery St. at an estimated cost of $22,000.

✚**Geneva, N. Y.**—The contract for resurfacing Exchange St. from the south line of Seneca St. to the north line of North St. with sheet asphalt and brick has been awarded to the WARNER, QUINLAN CO., Syracuse.

✚**Herkimer, N. Y.**—The contract for paving West Smith, William and George St. and Dewey Ave. has been awarded to the WARREN BROS. CO., at $18,301.

New York, N. Y.—(Borough of Bronx)—(Official) — See item under "Sewers."

New York, N. Y.—(Borough of Bronx)—Bids were received June 24 by Douglas Matthewson, Borough Pres., for paving Fordham Rd. from Webster Ave. to Harlem River Terrace as follows: Uvalde Asphalt Paving Co., $90,176; J. Leopold & Co., $88,613; Rogers & McManus, $102,035; Asphalt Construction Co., $85,094; W. J. Scanlon Co., $85,230; Barber Asphalt Co., $99,285; Rafferty Construction Co., $91,035. Noted June 17.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Borough Pres., Borough Hall, Long Island City, until 11 a.m., July 8, for regulating, grading, paving, laying sidewalks, etc., on various streets in the borough; also for furnishing and delivering 62,000 asphalt paving blocks.

Niagara Falls, N. Y.—Bids will be received until July 6 by the Board of Public Works for paving portions of Whitney Ave., at an estimated cost of $32,000.

Belleville, N. J.—Press reports state that the town will soon receive bids for paving and improving Campbell Ave.

✚**Belleville, N. J.**—The contract for paving Greylock Ave. has been awarded to the GLENFIELD CONSTRUCTION CO., Newark. Noted Apr. 29.

Belleville, N. J.—Press reports state that the town plans to pave Howard Pl., Smith, Dow and Heckel St. and Overlook and Belmont Ave.

Hoboken, N. J.—(Official)—Bids were received for repaving portions of Grand, Adams and Madison St. as follows: Henry Waddington, $16,228; E. E. Calder, $18,986; Thomas Cavanaugh, $15,988; F. Fellows Co., $11,922. Noted June 17.

Jersey City, N. J.—William Baker, Inc., 26 Cortlandt St., New York, at $486,688, submitted the lowest bid for improving the Newark Turnpike. Noted June 3.

Jersey City, N. J.—The Van Keuren Contracting Co., at 76.3% standard price, submitted the lowest bid for repaving a portion of Montgomery St. Noted June 3.

✚**Millburn, N. J.**—The contract for paving Prospect and Mountain Ave., Pine, Elm and Maple St. has been awarded to JOHN DORER, Irvington, at $30,000. Noted June 10.

Newark, N. J.—Bids were received June 17 for repaving (a) Richards St. from Ferry St. to the Passaic River, (b) Oraton St. from Delevan to Elwood Ave., (c) Clifton Ave. from Second to Abington Ave. as follows: Continental Public Works Co., New York, N. Y., (a) $6609, (b) $5929, (c) $11,797; Ralph Sangiovanni, Newark, (a) $6973, (b) $6318, (c) $12,649; Northern Construction Co., Newark, (a) $6939, (b) $6229, (c) $12,462; Newton Paving Co., Newark, (a) $6959, (b) $6240, (c) $12,396; McMahon Construction Co., (a) $7039, (b) $6170, (c) $12,395; Uvalde Asphalt Co., (a) $7224, (b) $6485, (c) $12,739; Glenfield Construction Co., (a) $7355, (b) $6428, (c) $12,560. Noted May 20 and June 3.

✚**New Brunswick, N. J.**—The contract for improving St. George's Ave. has been awarded to LIDDLE & PFEIFFER, Perth Amboy, at $65,286. Noted June 10 and 24.

Rutherford, N. J.—(Official)—Bids will be received until 8:15 p.m., July 2, by the Borough Council for laying water bound macadam pavement on Sylvan St. from Pierrepont to Van Riper Ave. and on Van Ness Ave. from Lincoln to Park Ave. F. A. Stedman is Borough Clk.

Summit, N. J.—(Official)—Bids will be received until 8 p.m., July 6, by the Common Council for improving Pine Grove Ave.

Weehawken, N. J.—(Official)—Bids will be received until 8 p.m., July 6, by the Township Committee for paving Clifton Terrace from Hudson Blvd. east to Park Ave. Estimated cost, about $50,000. Noted May 20.

✚✚**Philadelphia, Penn.**—(Official)—The contract for improving the Northeast Blvd and branches from Rhawn St. northward has been awarded to the McNICHOL PAVING & CONSTRUCTION CO., at $310,000. Noted June 3 and 24.

Pittsburgh, Penn.—(Official)—Bids will be received until 10 a.m., July 8, by the Commissioners of Allegheny County for improving a number of highways in Allegheny County. Hyatt M. Cribbs is County Controller.

✚**Richmond, Penn.**—The contract for paving North A St. has been awarded to the ANDREWS PAVING CO., Hamilton, Ohio.

✚✚**Wilmington, Del.**—A contract for laying approximately 100,000 sq.yd. of pavements has been awarded to the TOPEKA PAVING CO., INC., Brooklyn, at about $500,000. Noted May 13.

Fairmont, W. Va.—At the election held June 21 the citizens of Fairmont District, Marion County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads. Noted May 13 and 27.

Huntington, W. Va.—Bids will be received until July 20 by the Commissioners of Cabell County for constructing about six miles of the Ohio River Rd. Oliver & Maupin, Courthouse, is Engr.

Matewan, W. Va.—At a recent election the citizens voted in favor of issuing $12,000 in bonds, the proceeds of which will be used for grading and paving streets.

Carthage, N. C.—At a recent election the citizens voted in favor of issuing $5000 in bonds, the proceeds of which will be used for the construction of roads in Sandhill Township, Moore County. Noted May 7.

Dobson, N. C.—An election will be held July 20 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used to construct roads in Siloam Township, Surry County.

Carterville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for paving streets. W. W. Daniel is City Engr.

Ocilla, Ga.—An election will be held July 15 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for the construction of roads.

Pinellas Park, Fla.—Bids will be received until July 6 for curbing and paving a number of streets with brick. R. J. DeHaas is Town Clk.

✚**Tavares, Fla.**—A contract for constructing a system of roads in District No. 4 has been awarded to the CONTINENTAL PUBLIC WORKS CO., at $79,023. Noted Dec. 14 and Mar. 18.

Wauchula, Fla.—Bids will be received until July 12 for paving with brick Main St. from the eastern boundary to Florence Ave. and Fifth Ave. from Orange to Palmetto St.

Laurel, Miss.—The city plans to pave about five miles of streets, including portions of Front, Ash, Eighth and 10th St. Estimated cost, $150,000.

Meridian, Miss.—At a recent election the citizens voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for constructing roads in Lauderdale County to connect with paved streets in Meridian. Noted May 20.

✚Baton Rouge, La.—A contract for paving 12 miles of streets has been awarded to E. W. PRUTMAN, Danville, Ill., at $200,000.

Mansfield, La.—Bids will be received until noon, July 6, by E. D. Hudson, Clk., for constructing approximately 10,130 sq.yd. of street pavement, 3500 lin.ft. of curb and 260 lin.ft. of storm sewer. E. E. Swope is City Engr.

Marksville, La.—The citizens of Avoyelles parish will hold an election July 22 to vote on the question of issuing $350,000 in bonds. The proceeds will be used to construct about 80 miles of roads.

Carrollton, Ky.—An election will be held Aug. 5 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for the construction of roads.

Pineville, Ky.—All bids recently received for grading the road from Middlesboro to Four Mile have been rejected by the Commissioners of Bell County. W. C. Bingham is Clk.

Canal Dover, Ohio—Bids will be received until July 15 by C. Weaver, City Clk., for paving East Third St. with brick. The estimated cost of the work is $20,000. George Arnold, New Philadelphia, Ohio, is Engr.

Coshocton, Ohio—(Official)—Bids will be received until noon, July 10, by the City Audr. for the sale of $11,000 in bonds, the proceeds of which will be used for the improvement of Seventh Ave. from Kenilworth Ave. to Bank St.

Euclid, Ohio—(Official)—Bids will be received until noon, July 12, by H. S. Dunlop, Clk., for repairing Euclid Rd. and Chardon Rd. F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, is Engr.

✚Findlay, Ohio—The contract for paving East Sandusky St. has been awarded to HASKELL & BATTLES, Painesville, at $9856.

Lakewood, Ohio—(Official)—Bids will be received until noon, July 12, by E. A. Fisher, City Engr., for paving Dowd St. and Norton, French and Virginia Ave. with brick bituminous macadam or sheet asphalt, and for surfacing old macadam on Lake Ave. with bituminous concrete, sheet asphalt or bitulithic.

New Albany, Ohio—Bids will be received until noon, July 15, by F. M. Heischmann, Clk., for improving a number of streets. Jennings, Lawrence & Lindsay, Hartman Bldg., Columbus, is Engr.

✚Norwalk, Ohio—(Official)—A contract for improving four miles of county highway in Huron County has been awarded to the MODERN CONSTRUCTION CO., Fremont, at $37,290. Other bids were: G. E. Scott, $39,999; Graves & Barrett, $39,880; Riley Pardo, $39,499. Noted June 17.

Portsmouth, Ohio—(Official)—Bids will be received until noon, July 6, by George L. Gableman, City Audr., for the sale of $10,000 in bonds, the proceeds of which will be used for improving a number of streets.

✚Rocky River, Ohio—(Official)—The contract for constructing concrete sidewalks on the North Ridge Rd. has been awarded to B. G. FAY, 2087 West 91st St. Cleveland, at $6831. Other bids were: McHugh Bros., $7463; P. H. Peterson, $8025; W. N. Bomfield, $8661; G. B. Sloat, $8513; C. H. Bartholomew, Kent, $8392. Noted June 10.

St. Clairsville, Ohio—(Official)—Bids will be received until 1 p.m., July 5, by Emerson Campbell, Audr. of Belmont County, for repairing and resurfacing a portion of High Ridge Rd., in Pultney, Pease, Colerain and Richland Townships.

West Park, Ohio—Bids will be received until noon, July 6, by Fred F. Feuchter, Clk., for improving Warren, Raymond, Osborne, Belden, Lesure and Midland St.

✚Indianapolis, Ind.—The contract for grading, graveling sidewalks and curbing on Sutherland Ave. has been awarded to the AMERICAN CONSTRUCTION CO., at $7000.

✚New Castle, Ind.—The contract for paving Bundy Ave. has been awarded to the UNION ASPHALT CO., Indianapolis.

✚Bay City, Mich.—Contracts have been awarded for paving Lafayette, Michigan and Kosciusko St. to the WILLISTON CONSTRUCTION CO., at $25,040; Madison and John St. to the CLEVELAND TRINIDAD CO., Cleveland, at $52,039 and $4209 respectively; Germania St. to BATESON BROS., at $12,011; John St. to P. RYAN, at $8417.

Eaton Rapids, Mich.—Bonds for $16,000 have been sold, the proceeds of which will be used for paving a number of streets.

Brocton, Ill.—(Official)—The time for receiving bids has been postponed from June 28 until 2 p.m., July 12, by the Commissioners of Highways of Embarrass Township, Edgar County, for constructing combination rock and gravel roads on four highways in Embarrass Township. Noted June 17.

✚Evanston, Ill.—(Official)—The contract for paving Lyons St. from Ridge to Wesley Ave. has been awarded to M FOLEY CO., at $4814.

Fairbury, Ill.—The City Council contemplates paving Third, Walnut and Maple St. with brick, at an estimated cost of $25,000. H. B. Taylor is Mayor.

✚Lake Forest, Ill.—A contract for constructing 13,400 sq.yd. of asphaltic concrete pavement has been awarded to H. G. GOELITZ, Oak Park, at $29,661. Other bids were: Western Improvement Co., Racine, $30,628; John A. McGarry Co., Chicago, $31,685.

✚Milwaukee, Wis.—Contracts have been awarded for constructing asphalt pavements on 25th, 15th, 18th, and Burnham St. to the WHITE CONSTRUCTION CO., Marietta and Murray Ave., to F. P. COUGHLIN; 27th and 16th St. to the BADGER CONSTRUCTION CO. The estimated cost of the work is $92,000.

Racine, Wis.—(Official)—Bids will be received until 10 a.m., July 10, by the Board of Public Works for the improvement of 17th St. from Hamilton to Phillips Ave. and Lafayette Ave. from West Sixth St. to Root River.

✚Atlantic, Iowa—A contract for paving 24,631 sq.yd. with concrete has been awarded to P. C. HANSEN & SON, Sioux City, at $1.14 per sq.yd.

✚Marshalltown, Iowa—A contract for construct[illegible] concrete pavements on 25 streets has been awarded to THOMAS CAREY & SONS, Clinton. Noted June 10.

✚Duluth, Minn.—The contract for paving Sixth [illegible] 16th St. has been awarded to AUGUST A. BODIN & SON, at $29,423.

✚Mankato, Minn.—A contract for paving about [illegible] blocks in the business section has been awarded to the WILD[illegible] CO., at $51,786. Noted May 13.

✚Beloit, Kan.—(Official)—A contract for constructing pavements has been awarded to McGUIRE & STANTON CONSTRUCTION CO., Leavenworth, at $83,267. Other bids were: E. W. Geiger Construction Co., $86,442; Kaw Paving Co., $87,073; Watts & Amerman, $82,400. Noted June 17.

✚Wellington, Kan.—(Official)—The contract for paving F, G, H, Fourth and Second St. with asphaltic concrete has been awarded to the KAW PAVING CO., Topeka, at $76,506. Noted June 17.

Kearney, Neb.—(Official)—Bids will be received until 2 p.m., July 2, by T. N. Hartzell, City Clk., for paving Districts Nos. 4 and 5. Noted May 13.

✚Lincoln, Neb.—A contract for constructing asphaltic concrete pavement in District No. 308 has been awarded to the BURKE COCHRANE CONSTRUCTION CO., Lincoln, at approximately $18,000.

✚Lewistown, Mont.—The contract for paving several streets in the Eighth Ave. District has been awarded to C. W. JOHNSON, at $10,320.

✚Kansas City, Mo.—Contracts have been awarded for paving Campbell St. from 27th St. south to the CLEVELAND TRINIDAD PAVING CO., at $4843; Main St. from 40th to 42d St. and Central St. from 31st to 33rd St., to F. P. McCORMICK, at $6107 and $6652 respectively.

✚Newport, Ark.—(Official)—The contract for paving Walnut St. with concrete has been awarded to J. R. HOLDEN, Newport, at $8000. Noted June 17.

Weatherford, Tex.—The citizens of Parker County will hold an election July 31 to vote on the question of issuing $60,000 in bonds. Part of the proceeds will be used for the construction of roads.

Cathlamet, Wash.—Bids will be received until 1 p.m., July 6, by the Board of County Commissioners for improving a portion of State Road No. 19, beginning at Skamokawa, running eastward a distance of 6½ miles.

✚Elma, Wash.—(Official)—The contract for paving Main, Third and Young St. has been awarded to the WASHINGTON PAVING CO., at approximately $34,880. Other bids were: Independent Asphalt Paving Co., $36,482; Olympic Paving Co., $38,784; Hougill-Hegg & Co., $39,126. Noted June 10.

✚Montesano, Wash.—The contract for hardsurfacing a portion of the Elma Rd. has been awarded to the WASHINGTON PAVING CO., Tacoma, at $14,500. Noted June 17.

✚Olympia, Wash.—The contract for constructing 7½ miles of Permanent Highway from Vancouver to La Center in Clark County has been awarded to the GENERAL CONSTRUCTION CO., Spokane, at $25,036. The only other bid was that of Akeson & Baumquist, Portland, at $25,164. Noted June 17.

✚Olympia, Wash.—The contract for paving Main St. has been awarded to the INDEPENDENT ASPHALT PAVING CO., Seattle, at $10,000.

✚Seattle, Wash.—The contract for constructing the Redmond-Issaquah Rd. has been awarded to the HORROCKS CONSTRUCTION CO., at $55,099. Noted June 3.

Astoria, Ore.—Press reports state that the City Council plans to improve Niagara Ave. from Eighth St. to Olney Ave., at an estimated cost of $20,000.

✚Portland, Ore.—The Commissioners of Multnomah County have awarded contracts for highway construction as follows: Columbia River Highway, 26.20 miles, Sections A, B and C, to the WARREN CONSTRUCTION CO., at $288,163; Section D, to the PACIFIC BRIDGE CO., at $155,332; Section E, to the BOYAJOHN-ARNOLD CO. and HANS PEDERSON, at $22,921. Sandy Road, 12.75 miles, Section A and B, to the WARREN CONSTRUCTION CO., at $204,849. Base Line Rd., 8.83 miles, Section A and B, to the CLARK-HENERY CONSTRUCTION CO., Sacramento, at $148,379. Powell Valley Rd., 7.62 miles, to OSCAR HUBER, at $121,603. Foster Rd., 4.34 miles, MONTAGUE-O'REILLY CO., at $94,043. Cañon Rd., 1.67 miles, Section A, to the BOYAJOHN-ARNOLD CO. and HANS PEDERSON, at $16,903; Section B, to MONTAGUE-O'REILLY CO., at $22,352. All bids for paving the St. Helens Rd. were rejected as being too high. Noted Apr. 1 and 29.

Bakersfield, Calif.—Press reports state that the Board of Supervisors of Kern County will receive bids until July 7 for constructing 1.42 miles of the Bakersfield-McKittric Rd.

✚Banning, Calif.—A contract for constructing four miles of concrete curb, gutter and sidewalk has been awarded to M. V. McCOMBS, at approximately $24,000.

✚Gridley, Calif.—The City Trustees have awarded a contract for paving 15 blocks to the CLARK-HENERY CONSTRUCTION CO., Sacramento, at $52,373.

Hutchinson, Kan.—(Official)—Bids will soon be called for by the City Clerk for paving about five blocks with vitrified brick.

✚Los Angeles, Calif.—The contract for improving Medford St. from Murchison to Soto St. has been awarded to BRYANT & AUSTIN, at approximately $13,132.

Riverside, Calif.—Shull-Tucker Co., at $8140, was the lowest bidder for macadamizing and constructing concrete sidewalks, curbs and gutter on Vine St. from First to Seventh St.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 6, by the State Highway Commission, 515 Forum Bldg., for constructing state highways as follows: Tehama County, from Red Bluff to the northerly boundary, 12.7 miles; Glenn County, From Willows to Grapit, 9.4 miles; Contra Costa County, from El Cievro to Eckley, 3.5 miles; Tulare County, from Goshen to Visalia, 6.4 miles; Tulare County, from westerly boundary to the tracks of the Southern Pacific Company.

✚San Bernardino, Calif.—Contracts have been awarded for paving Second St. to TUTTLE & DEVOY, at $12,236, and I St. to the HIGHWAY CONSTRUCTION CO., at $15,380.

+Sausalito, Calif.—A contract for constructing 4259.15 lin.ft. of bituminous brick highway has been awarded to CLARK & HENERY, at $20,489. Noted June 17.

+Montreal, Que.—A contract for constructing sidewalks on about 33 streets has been awarded to the SICILY ASPHALT CO. at approximately $65,000.

Brockville, Ont.—The Town Council plans to lay tarvia pavement on St. Andrew St. and Court House, at a cost of $5500. G. H. Bryson is Engr.

Ingersoll, Ont.—Bids will be received until 5 p.m., July 5, by W. R. Smith, Town Clk., for constructing approximately 7175 sq.yd. of vitrified brick pavement on a concrete base with 3500 lin.ft. of combined curb and gutter.

Orillia, Ont.—The Town Council plans to pave Front St., at an estimated cost of $7500. C. E. Grant is City Clk.

Pembroke, Ont.—The Town Council is considering the construction of pavements on Hincks, Berlin and Murray St., at an estimated cost of $8000. A. J. Fortier is Clk.

+Wallace, Ont.—A contract for constructing 71 miles of roads has been awarded to A. R. BROWN.

INDUSTRIAL WORKS

+Boston, Mass.—George W. Harvey, 201 Devonshire St., will build a ten-story manufacturing and office building at Chauncey and Bedford St. Clinton J. Warren, 804 Old South Bldg., is Arch.

+Boston, Mass.—J. M. & C. J. BUCKLEY, 164 Federal St., has been awarded the contract for the construction of a five-story, 59x100-ft. warehouse for the Boston Wharf Co., 259 Summer St. M. D. Safford, 259 Summer St., is Arch.

Boston, Mass.—Bids are being received by Stebbins & Watkins, 164 Federal St., Arch., for the construction of a one- and two-story, 65x131-ft. manufacturing building for W. F. Smith.

Boston, Mass.—An eight-story, 55x80-ft. manufacturing and storage building will be constructed for Joseph Segal. F. A. Norcross, 46 Cornhill, is Arch.

+Charlestown, Mass.—Walter S. Glidden has awarded the contract for the construction of a three-story, 47x85-ft. garage to F. C. ALEXANDER, Old South Bldg., Boston, Mass. The estimated cost is $25,000. Warren & Gerrish, 53 State St., Boston, Mass., is Arch. Noted June 24.

+Chelsea, Mass.—W. H. LARKIN, 91 Tudor St., has been awarded the contract for the construction of a two-story addition to the factory of the Revere Rubber Co., 200 Devonshire St., Boston, Mass. The cost is estimated at $40,000.

+Dover, Mass.—The contract for the construction of a two-story, 44x54-ft. garage for W. H. Baltzell, has been awarded to LEIGHTON & MITCHELL, 95 Milk St., Boston, Mass. Bellows & Aldrich, 9 Park St., Boston, Mass., is Arch. The estimated cost is $30,000.

Lowell, Mass.—The Wamesit Power Co. will build a two-story, 60x350-ft. factory, to cost about $60,000. It will be built by day labor.

+Bridgeport, Conn.—JAMES STEWART & CO., 30 Church St., New York, N. Y., has been awarded the contract for the construction of 11 factories for the Remington Arms-Union Metallic Cartridge Co.

+Waterbury, Conn.—The Waterbury Farrell Foundry & Machine Co., 465 Bank St., has awarded the contract for the construction of a three-story, 50x150-ft. addition to its factory to the H. WALES LINES CO., Meriden, Conn. W. E. Griggs, 111 West Main St., is Arch. Noted June 3.

+Waterville, Conn.—TRACY BROS.' CO., 57 Benedict St., has been awarded the contract for the construction of a one- and two-story, 40x100-ft. factory for the Rowbottom Machine Co., Sheffield St. W. E. Griggs, 111 West Main St., Waterbury, Conn., is Arch.

+Binghamton, N. Y.—J. L. LEWIS, Wall St., has been awarded the contract for the construction of a two-story, 62x100-ft. addition to the factory of the Barnes-Smith Co.

+Buffalo, N. Y.—The Pierce-Arrow Motor Car Co. has awarded the contract for the construction of a four-story, 200x400-ft. reinforced-concrete addition to its plant on Elmwood Ave. to the ABERTHAW CONSTRUCTION CO., Boston, Mass. The estimated cost is $200,000.

Buffalo, N. Y.—Bids are being received by Joseph J. Geigard, Arch., 346 Herman St., for the construction of a three-story, 30x150-ft. storehouse for Adam J. Menger, 224 Washington Market.

Herkimer, N. Y.—Bids have been received by Carl Hang & Sons, Arch., Little Falls, N. Y., for the construction of a three-story, 60x90-ft. addition to the mill of the Royal Gem Mills. Joseph Reamy, St. Johnsville, N. Y., is Pres.

New York, N. Y.—(Borough of Brooklyn)—The Sperry Gyroscope Co., 126 Nassau St., plans the construction of a ten-story factory. Frank J. Helmle, 190 Montague St., is Arch.

New York, N. Y.—(Borough of Brooklyn)—Bids have been received by Benjamin Dreisler, Arch., 143 Remsen St., for the construction of a two-story, 60x200-ft. warehouse for Becker's Aniline & Chemical Works, 105 Underhill Ave. Noted Mar. 11.

+New York, N. Y.—(Borough of Manhattan)—SMITH & LEO, INC., 103 Park Ave., Borough of Manhattan, has been awarded the contract for the construction of a $10,000 factory extension for J. M. Huber, 65 West Houston St. (Borough of Manhattan). Brutus Gundlack, 185 Madison Ave. (Borough of Manhattan), is Arch.

+New York, N. Y.—(Borough of Manhattan)—C. F. Etzel, 165 West 18th St., has awarded the contract for the construction of a two-story, 60x100-ft. factory to KATZ & SCHOENHOLTZ, 165 West 18th St. The estimated cost is $12,000. Mitchell Bernstein, 131 East 23rd St., is Arch.

+New York, N. Y.—(Borough of Queens)—J. ODELL WHITENACK, 231 West 18th St., Borough of Manhattan, has been awarded the contract for the construction of a four-story factory for Fred Mayer, Boston, Mass. H. N. Paradise, 231 West 18th St. (Borough of Manhattan), is Arch.

+Syracuse, N .Y.—The Merrill-Soule Co., North Franklin St., has awarded the contract for the construction of a two-story, 56x123-ft. machine shop to the TAYLOR-HORNSBY CONSTRUCTION CO., Post-Standard Bldg. The estimated cost is $14,000.

Butler, N. J.—The Pequannock Rubber Co. will build a three-story, 47x180-ft. and a one-story, 40x75-ft. factory, to cost $50,000. M. & W. Oakley, 6 Park Ave., Paterson, N. J., is Arch. Joseph F. McLean is Pres.

+Newark, N. J.—The contract has been awarded to the ESSEX CONSTRUCTION CO., 85 Academy St., for the construction of a two-story, 80x93-ft. garage for Max Mindl, 31 Clinton St. The estimated cost is $12,000. Frank Grad, 245 Springfield Ave., is Arch.

Newark, N. J.—George Stengel, Western Ave., will rebuild his three-story factory. The estimated cost is $40,000. M. N. Shoemaker, 9 Clinton St., is Arch.

Yardville, N. J.—The Chandler Oil Cloth Co. will build a $30,000 factory. J. Osborne Hunt, Inter-state Telephone Bldg., Trenton, N. J., is Arch.

+Allentown, Penn.—Bayuk Bros. Co. has awarded the contract for the construction of a four-story factory to WILLIAM LINKER & CO.

Croyden, Penn.—(Bridgewater post office)—Bids are being received by Heacock & Hokanson, Arch., 1218 Chestnut St., Philadelphia, Penn., for the construction of a one-story, 40x250-ft. dairy for Joseph R. Grundy, Bristol, Penn. The estimated cost is $35,000.

Fleetwood, Penn.—Wayne M. High, Arch., 11 North Fifth St., Reading, Penn., is receiving bids for the construction of a two-story, 40x489-ft. automobile factory for the Fleetwood Metal Body Works, care Harry Urich. The estimated cost is $40,000.

Lebanon, Penn.—A. S. Kreider, Annville, Penn., contemplates the construction of a three-story factory estimated to cost $30,000.

+Philadelphia, Penn.—The Tasty Baking Co., 2335 Sedgley Ave., has awarded the contract for the construction of a three-story, 66x79-ft. bakery to JOSEPH F. MYERS, JR., 1237 Ridge Ave.

+Philadelphia, Penn.—(Official)—JOHN G. BROWN, Witherspoon Bldg., has been awarded the contract to design and build a plant for the mining, pumping, screening, washing and drying of sand for the Norcross & Edmunds Sand Co.

Riverside, Penn.—Bids have been received by W. U. Jurty, Arch., Shamokin, Penn., for the construction of a three-story, 50x120-ft. mill for William F. Taubel. The estimated cost is $45,000.

Hagerstown, Md.—Plans have been completed by Peuckert & Wunder, Arch., 310 Chestnut St., Philadelphia, Penn., for the construction of a one-story, 100x200-ft. factory for the Pangborn Corporation. The estimated cost is $35,000. Noted May 20.

Winchester, Va.—The National Fruit & Products Co., Alexandria, Va., plans the construction of a $20,000 plant. Milburn, Heister & Co., Union Savings Bank Bldg., Washington, D. C., is Arch.

+Charleston, W. Va.—C. W. McNULTY, Huntington, W. Va., has been awarded the contract for the construction of a six-story, reinforced-concrete factory for the Woodrum Home Outfitting Co., to cost $85,000.

New Orleans, La.—Bids have been received by the Board of Commissioners of the Port of New Orleans, Suite 200, New Orleans Court Bldg., for the construction of a two-story, 120x2000-ft. wharf house and a 150x580-ft. warehouse on the Mississippi River near Valence St. Ford, Bacon & Davis, 921 Canal St., is Arch.

+Akron, Ohio—THE HALLER CONSTRUCTION CO., Second National Bldg., has been awarded the contract for the construction of a one-story, 25x59-ft. and 56x68-ft. garage for Dayton A. Doyle, 510 West Market St. The estimated cost is $14,000. Henry & Murphy, Doyle Blk., is Arch.

Akron, Ohio—The Akron Gas Lamp Co. will build a factory at 606 South High St., to cost $14,000.

Barberton, Ohio—The Portage Rubber Co. will build a factory at an estimated cost of $300,000.

+Cincinnati, Ohio—THE FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St., has been awarded the contract for the construction of a one- and two-story, 52x203-ft. garage for the Commercial Auto & Sales Co., care Joseph Bering, 128 East Eighth St. The estimated cost is $30,000. Anthony Kunz, Jr., 955 West Court St., is Arch.

Cleveland, Ohio—Plans have been completed by Samuel Austin & Son Co., 14,230 Euclid Ave., for the construction of a four-story, 60x320-ft. factory, a foundry, and a power plant, at Ivanhoe Rd. and the Nickle Plate R.R., for the Frantz-Premier Co., Leader-News Bldg.

+Cleveland, Ohio—JOHN WOIDE, 1659 East 86th St., has been awarded the contract for the construction of a one-story, 70x180-ft. addition to the factory of the Allyne Ryan Foundry Co., Aetna Rd. The Forest City Engineering Co., 512 Hippodrome Bldg., is Engr.

Cleveland, Ohio—The Westinghouse Electric & Mfg. Co., 1220 West 58th St., will remodel its plant at a cost of $500,000.

Cleveland, Ohio—Bids are being received by the Hydraulic Pressed Steel Co., H. O. Davidson, Ch. Engr., 3152 East 61st St., for the construction of a one-story, 80x360-ft. factory.

+Columbus, Ohio—D. Reibel & Sons, Arch., has awarded the contract for the construction of a dairy and ice plant for the S. T. Budd Dairy Co., to WILLIAM WATSON, at $52,856. Noted Apr. 22 and June 24.

+Dayton, Ohio—The contract for the construction of a four-story, 65x70-ft. packing plant for the Henry Burkhardt Packing Co., Huffman and Irwin St., has been awarded to JOSEPH BOREN & SONS, Arcade Bldg., Peters, Herman & Brown, Reibold Bldg., is Arch.

Kokomo, Ind.—Howard Cole & Co. plans the construction of additions to its foundry to cost $75,000.

+Muncie, Ind.—The Warner Gear Co. has awarded the contract for the construction of a two-story addition to its

factory to the ILLINGSWORTH-SPANGLER CO. The estimated cost is $15,000. Cuno Kibele, 335 Johnson Bldg., is Arch.

✚**Detroit, Mich.**—The Atlas Foundry Co. has awarded the contract for the construction of a 85x270-ft. factory at Artillery Ave. and the Wabash R.R. to the WISCONSIN BRIDGE CO. W. T. Curtis is Engr.

✚**Saginaw, Mich.**—The Saginaw Daily News, 307 Tuscola St., has awarded the contract for the construction of a three-story, 50x110-ft. press building to J. S. KERNS & SON, 207 South Third St. The estimated cost is $30,000. Cowles & Mutscheller, 1 Chase Blk., is Arch.

Chicago, Ill.—The Berningham & Seaman Co., 7 South Dearborn St., will build a seven-story, 100x150-ft. paper mill, to cost $150,000. Paul Gerhardt, 64 West Randolph St., is Arch.

✚**Chicago, Ill.**—The contract for the construction of an eight-story warehouse for the Independent Packing Co., 41st and Halsted St., has been awarded to the E. W. SPROUL CO., 1120 West 35th St. S. S. Joy, 1118 West 35th St., is Arch. Noted Jan. 14.

✚**Wausau, Wis.**—FRED W. KRAUSE has been awarded the contract for the construction of a three-story, 106x120-ft. packing plant for the Farmers' Coöperative Packing Co. H. C. Gardner, 140 South Dearborn St., Chicago, Ill., is Arch. Noted Feb. 4.

✚**Jennings, Mo.**—The National Oil Cloth Co. has awarded the contract for the construction of a one-story, 163x347-ft. factory to the McCORMICK-COOMBS CONSTRUCTION CO., Columbia Bldg., St. Louis. Klipstein & Rathmann, Chemical Bldg., St. Louis, is Arch.

Kansas City, Mo.—The Southwest News Co. will build a four-story, 50x133-ft. reinforced-concrete building at 410 East Ninth St., to cost $75,000. Smith, Rea & Lovitt, 602 Finance Bldg., is Arch.

St. Louis, Mo.—O. R. S. Traber, Fullerton Bldg., Arch., is receiving bids for the construction of a four-story, 48x96-ft. factory for Vivianno Bros., 1022 North Seventh St.

Tacoma, Wash.—The Sperry Flour Co. will build an addition to its plant at a cost of $65,000. J. D. Armstrong is Local Mgr. Bullard & Hill, Provident Bldg., is Arch.

San Fernando, Calif.—(Official)—Bids have been received by M. Grassley, Consolidated Realty Bldg., for the construction of a $20,000 lemon-packing plant for the San Fernando Lemon Association. H. A. Hamm, 100 North Daisy Ave., La Manda, Calif., is Arch.

FEDERAL GOVERNMENT WORK

Post Office—Mt. Vernon, N. Y.—Bids were received June 25 for the construction of a post office at Mt. Vernon, (a) using limestone for all stonework, except where granite is specified, (b) using sandstone, except where granite is specified, (c) using marble, except where granite is specified, as follows: J. S. Rogers, Moorestown, N. J., (a) $98,999, (b) $102,700, (c) $116,300; Westchester Engineering Co., White Plains, (a) $96,500, (b) $106,000, (c) $113,900; Dawson & Archer, New York, (a) $99,245, (b) $103,670, (c) $112,075; John G. Unkefer & Co., Minerva, Ohio, (a) $98,600, (b) $106,274, (c) $116,600; George T. Kelley, Yonkers, (a) $96,588, (b) $104,508, (c) $112,-608; William J. Morgan, Mt. Vernon, (a) $99,450, (b) $99,000, (c) $112,800; John Lowry, Jr., New York, (a) $106,265, (b) $110,775, (c) $123,865; Thomas J. Waters, New York, (a) $110,-000, (b) $115,000, (c) $125,000; William H. Egan, New York, (a) $99,740, (b) $106,300, (c) $127,700; Joseph di Benedetto, New York, (a) $87,737, (b) $95,737, (c) $105,737; Aroldo Barbaresi, New York, (a) $106,500, (b) $107,000, (c) $119,900; John T. Brady & Co., New York, (a) $94,510, (b) $97,510, (c) $110,510. Noted May 27.

✚**Plumbing**—New York, N. Y.—The contract has been awarded to C. F. MENTZINGER SONS, Brooklyn, at $32,119, for installing a new plumbing system in the U. S. post office and court house. Noted May 13 and June 10.

✚**Coast Guard Station**—Oswego, N. Y.—The contract has been awarded to R. M. BARNETT, Oswego, at $10,750, for constructing a coast guard station. Noted June 3 and 24.

★**Repair to Pier**—Erie, Penn.—The T. A. Gillespie Co., Pittsburgh, was low bidder at $30,248, for making repairs to north pier, Erie. Noted May 27.

Immigration Station—Baltimore, Md.—Bids will be received until 3 p.m., Aug. 16, by James A. Wetmore, Act. Superv. Arch., Washington, D. C., for constructing one four-story, one three-story and two two-story buildings.

★**Road Work**—Washington, D. C.—Bids were received June 22 by the Department of Agriculture for the construction of an experimental road on the Russel Rd., Alexandria County, Virginia, as follows: William P. McDonald Construction Co., New York, N. Y., $18,362; L. M. Johnson, Arlington, Va., $20,925; G. B. Mullen Construction Co., Washington, D. C., $18,574. Noted June 10.

Fuel-Oil Tank—Key West, Fla.—Bids will be received until 11 a.m., July 17, by H. R. Stanford, Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing a 50,000-gal. steel fuel-oil storage tank at the naval station.

Levee Work—Vicksburg, Miss.—Bids will be received until 11 a.m., July 12, by the officer of the Third Mississippi River District, for levee work consisting of 1,415,000 cu.yd.

✚**Post Office**—New Albany, Ind.—The contract for the construction of a post office at New Albany has been awarded to R. P. FARNSWORTH & CO., Owensboro, Ky., at $67,675. Noted Apr. 8 and May 20.

✚**Post Office**—La Salle, Ill.—The contract has been awarded to CHARLES W. GINDELE, Chicago, at $67,000, for constructing the U. S. post office. Noted Apr. 22 and June 3.

Post Office—Ft. Atkinson, Wis.—Bids will be received until 3 p.m., Aug. 2, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U S. post office at Ft. Atkinson.

✚**Post Office**—Chillicothe, Mo.—The contract for the construction of a post office at Chillicothe has been awarded to W. H. FISSELL & CO., New York, N. Y., at $87,700. Noted Apr. 22 and June 10.

Post Office—Cuero, Tex.—Bids were received June 1 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Cuero, (a) limestone, (b) sandstone, as follows: Texas Construction Co., San Antonio, (a) $52,500, (b) $55,300; Richardson Engineering Construction Co., Bainbridge, Ga., (a) $53,470, (b) [illegible]; George A. Shaul, Seneca, Kan., (a) $53,510; R. P. Farnsworth & Co., Owensboro, Ky., (a) $56,470, (b) $59,000; Allison Blair, Montgomery, Ala., (a) $57,286; Charles Fuess & Son, Cuero, (a) $57,800, (b) $61,200; Potters Lumber Co., East Liverpool, Ohio, (a) $58,200, (b) $60,800; Thomas W. Vessel, Wooster, Ohio, (a) $58,500, (b) $61,000; J. F. McKnight, Hallettsville, (a) $63,500. Noted May 13.

✚**Post Office**—Long View, Tex.—The contract for the construction of a post office at Long View has been awarded to V. E. TAYLOR, Ennis, at $36,250. Noted Apr. 29 and June 10.

Reclamation Service—Provo, Utah—Bids will be received until 2 p.m., July 15, at the U. S. Engineer Office, Provo, for constructing about 50,000 cu.yd. of canal excavation, 8000 cu.yd. of rolled embankment, 3000 cu.yd. of excavation for structures, 950 cu.yd. of reinforced concrete and 525,000 sq.ft. of canal lining. Morris Bien is Act. Dir. Specifications are on file with "Engineering News."

Repairing Wharfs—Portland, Ore.—Bids will be received until 11 a.m., July 12, at the U. S. Engineer Office, Couch Bldg., Portland, for enlarging and repairing wharfs and trestleways and extending the north and south jettles at the mouth of the Sinslaw River.

Barges—Portland, Ore.—Bids will be received until 11 a.m., July 15, at the U. S. Engineer Office, Second District, Portland, for constructing two wooden fuel barges.

Addition to Building—Salem, Ore.—Bids will be received until 2 p.m., July 21, by Cato Sells, Comr. of Indian Affairs, Washington, D. C., for constructing an addition to the brick assembly hall at the Salem School.

Buildings—Guantanamo, Cuba—Bids will be received until 11 a.m., July 31, by H. B. Stanford, Ch., Bureau Yards and Docks, Washington, D. C., for constructing six buildings at the naval station, Guantanamo. Noted Apr. 8.

Locomotives—Panama—Bids will be received until 10:30 a.m., Aug. 16, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing 12 electric towing locomotives for the canal locks. Noted June 17.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., July 9, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies

Steel Doors—Panama—Bids will be received until 10:30 am., July 13, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing steel doors and erecting them at Pier No. 7 at Cristobal and shed on Pier 18 at Balboa

Structural Steel—Panama—Bids will be received until 10:30 a.m., July 12, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing and erecting structural steel and accessory parts for shed on pier No. 7, Atlantic Terminal, Panama Canal.

MISCELLANEOUS

Fire Station—Springfield, Mass.—Bids will be received by the City Clerk until noon, July 12, for the construction of a fire station on Winchester Sq. Specifications may be obtained from B. Hammett Seaburg, Arch., 21 Besse Place, Springfield.

✚**Dam**—Felts Mills, N. Y.—(Official)—The general contract for constructing a gravity section concrete dam at Felts Mills, has been awarded to the STEWART ENGINEERING CORPORATION 17 Battery Pl., New York. This dam impounds the waters of the Black River, generating power to operate the pulp and paper mill of the Taggart Paper Co.

Subway—New York, N. Y.—(Borough of Bronx)—The United States Government has consented to the construction of the proposed rapid transit bridge over the Bronx River at Westchester Ave. This bridge is to carry the tracks of the Pelham Bay Park branch of the Lexington Ave. subway, which, at this point runs on an elevated structure. The plans call for a permanent bridge with a clearance of 61 ft. above mean high water. The Engineers of the Public Service Commission for the First District are preparing plans.

Lumber, Grits and Sand—New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., 177th St. and Third Ave., for furnishing and delivering long leaf yellow pine, spruce and chestnut posts and grits and wash sand.

Dredging—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by R. A. C. Smith, Comr., Docks and Ferries, Pier A., Battery Pl., Borough of Manhattan, until noon July 12, for dredging in Mill Basin, Jamaica Bay.

Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until 12:15 p.m., July 20, for the construction of Section No. 1 of Route No. 49, a part of the Culver Rapid Transit R.R. This is a three-track elevated railroad, which will connect the Fourth Ave. subway through 38th St. and Gravensend Ave., with Coney Island. Section No. 1 extends from a point in 37th St., 246 ft. southeast of Tenth Ave. under private property and intersecting streets to Gravesend Ave. and over Gravesend Ave. to a point about 525 ft. south of Bay Parkway (22nd Ave.) produced.

✚**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for constructing a part of Route 29, Section 1, beginning at a point under Eastern Parkway, about 192 ft. west of the westerly building line of Nostrand Ave., curving thence southerly under Eastern Parkway and private property into Nostrand Ave. to a point about 220 ft. south of the southerly building line of Church Ave. has been awarded to NEWMAN & CAREY, 215 Montague St. (Borough of Brooklyn), at $2,073,303. Noted June 24.

Lumber and Piles—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. W. C. Smith, Comr., Docks and Ferries, Pier A, Battery Pl., until noon, July 12, for furnishing and delivering lumber and piles.

Dredging—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by R. A. C. Smith, Comr. Docks and Ferries, for dredging for the Riverside Park improvement, West 87th to West 93rd St., North River: H. DuBois, 17 State St., 13c. per cu.yd.; J. A. Seely, 18c.; Morris & Cummings, 21c. Noted June 17.

✦Track Materials—New York, N. Y.—(Borough of Manhattan)—(Official)—The following awards have been made by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for furnishing track materials: For open hearth rails, including main rails and guard rails, BETHLEHEM STEEL PRODUCTS CO., at $78,949; for rolled manganese rails, including standard and short lengths also the drilling or punching of bond and separate holes, MANGANESE STEEL RAIL CO., at 16,337; for track rail spliced bars, RAIL JOINT CO., at $11,474; for anti creepers, including those for guarded rails and those for unguarded rails, the CREEPCHECK CO., at $2571; for cut track spikes, LACKAWANNA STEEL CO., at $3326; for furnishing ties and timber, J. H. BURTON & CO., at $134,804; for furnishing bolts and nuts, AMERICAN IRON & STEEL MFG. CO., at $20,675; for malleable iron castings, under which classification are included guard rail braces, main rail braces and washers, FORAN FOUNDRY & MFG. CO., $5251; for tie plates under Type A, LACKAWANNA STEEL CO., at $14,190; for tie plates under Classification D, RAMAPO IRON WORKS, $1600, also for tie plates under Classification W and X, at $164; for hand rails, VULCAN RAIL & CONSTRUCTION CO., at $15,606; for special work, the RAMAPO IRON WORKS, at $19,740. Noted May 27 and June 24.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Robert Adamson, Fire Comr., until 10:30 a.m., July 7, for furnishing and delivering 24 motor-driven hose wagons, under three separate contracts, each contract providing for eight. Bids will also be opened at that time for furnishing 12 forty-gal. chemical tanks and 12 chemical hose reels.

Special Motor Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Municipal Bldg., until 2 p.m., July 9, for furnishing and delivering one four-ton auto truck body, crane, bucket, etc., for cleaning catch basins; one four-ton auto chassis with power take off; one superstructure, including body, crane, bucket, shafts, gears, etc., from plans "A"; one superstructure according to plan "B." Plans are on file with the Auditor, Room 2141 Municipal Bldg.

Supplies—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received at Room 1230, Municipal Bldg., until noon, July 7, for furnishing and delivering lime, cement, sand, rock, fire clay and fire brick to the Department of Bridges, Docks and Ferries, Public Charities, Water Supply, Gas and Electricity and Fire Department.

Lumber—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received at Room 1230, Municipal Bldg., until noon, July 7, for furnishing and delivering lumber to Bellevue and Allied Hospitals, Department of Bridges, Fire Department, Department of Public Charities and Department or Water Supply, Gas and Electricity.

Screen Work—New York, N. Y.—(Borough of Richmond)—(Official)—The following are the bids received by the Department of Charities for furnishing and installing certain screen work on the windows and balconies of various buildings of the Sea View Hospitals. Protector Ventilating Co., $12,967; W. H. Jameanau Co., $14,375; Watson Mfg. Co., $18,759; Theriault Mfg. Co., 946 Flatbush Ave., Brooklyn, $12,939; S. Rorbuck Co., 13,941. Noted May 13 and 27, and June 17.

Flood Protection—Olean, N. Y.—The taxpayers of the city have voted to issue $150,000 in bonds for flood abatement. Noted June 10.

Park Improvements—Caldwell, N. J.—The Essex County Park Commission plans to spend $50,000 in improving Grover Cleveland Park.

Stable—Jersey City, N. J.—The city plans to construct a three-story stable on Cornelison Ave. at an estimated cost of $50,000.

Park Bonds—Jersey City, N. J.—Bids will be received until 3 p.m., July 8, by the Board of Chosen Freeholders of Hudson County for $300,000 of Hudson County park bonds. Walter O'Mara is Clk.

Fire Alarm System—New Kensington, Penn.—Bids will be received by W. G. Goerman, Chn. Fire Com., until 8 p.m., July 6, for furnishing and installing a fire alarm system.

Terminal—Spartanburg, S. C.—According to press reports the Southern Ry. Co. will build a freight terminal consisting of separate inbound and out bound warehouses with ample team track facilities, to cost about $100,000.

✦Sheds—Jacksonville, Fla.—The contract for constructing structural steel sheds, also roofing and siding on the municipal piers, has been awarded to the CHESAPEAKE IRON WORKS, Baltimore, at $33,160 and $24,738 respectively. F. W. Bruce is Ch. Engr., Port Comn. Noted June 3.

Drainage—St. Augustine, Fla.—Press reports state that the County Commissioners have sold bonds for improving the Elkton drainage system.

Wharf—New Decatur, Ala.—It is reported that the City Council has purchased a site at Bank St. along the Tennessee River and plans the construction of a wharf.

Wharf—Tuscaloosa, Ala.—The City Commission is considering the construction of a wharf at a cost of $25,000.

Levee—Senatobia, Miss.—Bids will be received by J. A. Wooten, Clk., County Supervisors, until July 5 for the construction of a levee.

✦Levee Work—New Orleans, La.—The State Board of Commissioners has awarded the following contracts to D. B. HEARIN & SON.; Scott Levee, 210,000 cu.yd. at 11.22c. per cu.yd.; Magnolia Levee, 157,000 cu.yd. at 9.4c.; the Whitney Levee, 110,700 cu.yd. at 9.4c.; Jack Strange Levee, 84,000 cu.yd. at 8.98c.

✦✦Cranes and Elevator—New Orleans, La.—The contract for furnishing the electrical cranes for the cotton warehouses, has been awarded to the PAWLING & HARNISCHFEGER CO., Milwaukee, Wis., at about $65,800. Ford, Bacon & Davis, New Orleans, is Engr. Noted May 27.

Lumber and Piling—New Orleans, La.—Bids will be received by Ernest M. Loeb, Pres. Bd. of Comrs., New Orleans, until 2 p.m., July 14, for furnishing creosoted piling, creosoted lumber, and creosoted sheet piling, required for the construction of Julia Street Wharf. Specifications may be obtained of J. Devereux O'Reilly, Engr., 200 New Orleans Court Bldg., New Orleans.

Drainage—Westlake, La.—Bids will be received by W. H. Managan, Pres., Sulphur Drainage District No. 2, until July 7, for constructing 15 miles of open ditches. F. Shutts & Son, Lake Charles, is Engr.

Docks—Memphis, Tenn.—The Memphis Terminal Corporation is considering the construction of docks along the river front.

Drainage—Selmer, Tenn.—Bids will be received by the Board of Directors, Big Snake Creek Drainage District, until July 9, for drainage work, requiring about 253,844 cu.yd. of earth excavation. J. C. Houston, Selmer, is Atty.

Motor Fire Apparatus—Bellaire, Ohio—The voters passed a $16,500 bond issue for the purchase of one triple combination fire automobile, one combination motor fire truck, and one motor tractor.

Motor Fire Apparatus—Cleveland, Ohio—The city plans to spend $450,000 for motorizing and improving the fire department. Alfred A. Benesch, 304 City Hall, is the Safety Dir.

Swimming Pool—Cleveland, Ohio—Plans have been prepared by Walker & Weeks, Archs., 1900 Euclid Ave., for the construction of a swimming pool for the Y. W. C. A., at Prospect Ave. and East 18th St. The estimated cost is $15,000.

Ditch—Shelby, Ohio—Bids will be received until July 6 by George P. Staley, County Audr., for the purchase of $24,200 in ditch bonds.

✦Coke Ovens—Toledo, Ohio—The contract for constructing coke ovens for the Toledo Furnace Co. has been awarded to the H. KOPPERS CO., Pittsburgh, Penn.

✦Ditch—Anderson, Ind.—The contract for constructing Peters Ditch, etc., has been awarded to DANIELS & TYST, Anderson, at $30,125. William F. McVaugh is Drainage Comr. Noted May 13.

Ditch—Belvidere, Ill.—The Commissioners of Coon Creek Drainage District have completed plans for improving Coon Creek at a cost of about $78,000. A. L. Webster, Wheaton, is Engr.

Waterway—Springfield, Ill.—Edward F. Dunne, Governor, has signed the bill which provides for the construction of an eight-ft. channel connecting the Chicago drainage canal with the Illinois River, thereby creating a direct water route between the great lakes and the Gulf of Mexico through the Mississippi River. Noted Mar. 4.

Dam—Duluth, Minn.—Bids will be received by the County Commissioners until July 6 for constructing a dam at Vermillion Falls.

✦Ditches—Fairmont, Minn.—The contracts have been awarded by the County Commissioners for constructing Ditch No. 46 to the CEYLON CEMENT TILE CO., Ceylon, at $10,990, and Ditch No. 27, to JOEL BRAHY, Sherburn, at $6595. H. C. Nolte is County Audr.

Ditches—Roseau, Minn.—Bids will be called sometime in August by the State Drainage Commission, for constructing Judicial Ditches Nos. 61 and 62. The work requires the digging of about 300 miles of ditches in Roseau County, which includes 4,000,000 yd. of excavation. The estimated cost is $490,000. George A. Ralph, St. Paul, Minn., is Engr.

Conduit—Kansas City, Mo.—The City Council has granted permission to the Western Union Telegraph Co. to lay under the surface of the downtown streets, a pneumatic tube service and ducts for carrying low tensions wires.

Wharves and Docks—Beaumont, Tex.—The Wharf and Dock Commission has instructed Hugh M. Harding, Engr., 52 Vanderbilt Ave., New York, N. Y., to prepare working plans for the first wharf and terminal improvements, which includes the raising of the present wharf and the building of another unit of 500 ft., the construction of an 800-ft. shed and the installation of several loading and unloading cranes and other machinery. The estimated cost is $109,000. Noted Apr. 22.

Drainage—Robstown, Tex.—At an election held on June 17 a drainage district, comprising the town of Robstown and the outlying lands, was created and $150,000 bonds voted for the purpose of constructing a drainage system.

Drainage—Texas City, Tex.—The City Commission will soon call an election to vote on the question of issuing about $200,000 bonds for the construction of an underground drainage system. John W. Maxcy, Houston, is Engr.

Drainage—Dexter, N. M.—The construction of a drainage system near here to embrace 20,000 acres of land will be started about Aug. 1, if war is not declared by the United States against Germany. This provision is contained in the option of the Dickey Tile Co. for the purchase of the $250,000 bond issue for the proposed work.

Fire Equipment—Phœnix, Ariz.—Bids will be received by Robert A. Craig, City Mgr., until 4 p.m., July 6, for installing a fire alarm system and furnishing a motor driven fire engine.

✦Ditches, Drainage—Everett, Wash.—The contract for constructing drainage ditches in Drainage District No. 4, between Snohomish and Monroe, has been awarded by the County Commissioners to GEORGE P. WRIGHT, Tacoma, at $33,829. H. P. Niles is Engr. of the Dist.

Dock and Warehouse—Seattle, Wash.—The Harbor Island Dock & Terminal Co., White Bldg., will erect a dock and warehouse on Harbor Island, to cost about $500,000. Among those interested are O. D. Fisher, Fisher Flouring Mills Co., and the Schwager-Nettleton Mill Co., both with offices in the White Bldg.

Sprinkler System—Seattle, Wash.—The following are the bids received by C. E. Remsberg, Secy., Port of Seattle for installing a fire protection system in the storage warehouse at Smith's Cove: Fire Protection & Equipment Co., Seattle, $12,180; Automatic Sprinkler Co., Seattle, $13,140; Pacific Fire Extinguisher Co., Seattle, $13,452; Rockwood Sprinkler Co., Seattle, $13,371. Noted June 10.

Dock and Warehouse—Portland, Ore.—Plans are being prepared by Emil Schacht & Son, Arch., Portland, for the construction of a dock and warehouse on the Willamette River, for Albert Bros., Portland. The estimated cost is $20,000.

✚Oil Reservoir—Los Angeles, Calif.—The contract for constructing a concrete oil reservoir at Point Fermin for the General Petroleum Co. has been awarded to LEONARDT & PECK, Hellman Bldg. Los Angeles, at about $60,000.

Levees—Sacramento, Calif.—The West Side Co., will spend $150,000 in the reconstruction of levees from Knights Landing to Colusa. J. H. Ralston and E. L. Low are Dirs.

✚Ferry Aprons—San Francisco, Calif.—The Board of State Harbor Commissioners has awarded a contract for the construction of side aprons for ferry slips 6, 7 and 8, to the HEALY-TIBBITTS CONSTRUCTION CO., at $13,000.

✚Piles—San Francisco, Calif.—The contract for furnishing the State Harbor Commission with creosoted piles has been awarded to J. M. COLEMAN, at $15,605. Noted June 24.

Bath House, Etc.—Santa Monica, Calif.—Charles F. Gordon, Arch., Los Angeles Investment Bldg., Los Angeles, has been commissioned to prepare plans for a two-story bath-house for W. J. Stadleman. There will also be a bridge about 60 ft. long to connect the roof with the bluff adjoining. The estimated cost is $25,000.

Flume—Weaverville, Calif.—The Corona de Ore Mining Co. will construct a flume 2½ miles long at a cost of about $25,000.

Levee—Yuba City, Calif.—The county plans to spend $50,000 on levee construction.

Dam—Beaverton, Ont.—G. Veale & Co. plans to construct a dam.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

✚Augusta, Maine—The contract for the construction of a one-story, 54x127-ft. building for St. Augustine Church, has been awarded to JOHN FRANK CYR, Waterville, Maine. T. G. O'Connell, 18 Boylston St., Boston, Mass., is Arch. The estimated cost is $50,000. Noted May 13.

✚Burlington, Vt.—The Rutland R.R. and the Central Vermont R.R. have awarded the contract for the construction of a two-story union station to the W. SHETON SWALLOW CO., 105 West 40th St., New York, N. Y.

Boston, Mass.—The First Universalist Church will build a one-story Church to cost $50,000. Rev. H. D. Maxwell, 10 Grand View Ave., is pastor.

✚Boston, Mass.—The contract for the construction of a business block at 725 Atlantic Ave. for Daniel P. Collins has been awarded to NATHAN HURWITZ, 23 Wolcott St. The estimated cost is $50,000. A. J. Carpenter, Jr., 39 Dunreath St., is Arch.

✚Lawrence, Mass.—John Flanagan, Supt. of Pub. Bldgs., City Hall Annex, has awarded the contract for the construction of a four-story, 86x217-ft. school to A. D. SHUFELT, 54 Phillips St.

Malden, Mass.—Newhall & Blevins, Arch., has plans prepared for the construction of a $40,000 addition to the public library on Park St.

✚Milton, Mass.—BIGELOW & HARRIMAN, 127 Federal St., Boston, Mass., has been awarded the contract for the construction of a two-story building at Milton Academy. George F. Sgepard, 14 Kilby St., Boston, Mass., is Arch.

Waltham, Mass.—St. Charles Congregation will build a one-story, 65x150-ft. church, at an estimated cost of $85,000. Rev. Peter J. Walsh is pastor. James F. Monaghan, Room 401, 79 Milk St., Boston, Mass., is Arch.

Waltham, Mass.—John J. Johnson, 16 Morse St., Boston, Mass., will build a two-story, 65x125-ft. theater and store building by day work. The estimated cost is $45,000. F. A. Norcross, 46 Cornhill, Boston, Mass., is Arch.

Worcester, Mass.—A four-story lodge will be constructed for the Worcester Aerie of Eagles, to cost about $75,000. Thomas Wiseman is Chn. of Bldg. Com. F. M. Conlson, Walker Bldg., is Arch.

Albany, N. Y.—Merrick & Pember, Arch., 51 State St., is preparing plans for the construction of an eight- or ten-story apartment house at Washington Ave. and Swan St. The estimated cost is $150,000.

Albany, N. Y.—Plans are being prepared by Marcus T. Reynolds, Arch., 100 State St., for the construction of a six-story office building at 124 State St. for the Municipal Gas Co., 112 State St. The estimated cost is $600,000. N. F. Brady is Pres.

✚Buffalo, N. Y.—W. J. WIERZBOWSKI, 1427 Broadway, Buffalo, has been awarded the contract for the construction of a three-story parochial school on Sycamore and Mills St. for the Church of the Transfiguration. Estimated cost, $60,000. W. H. Zawadski is Arch.

✚Buffalo, N. Y.—The general contract for the construction of a two-story, 100x100-ft. reinforced-concrete store building at 300 Delaware Ave., for Harlow C. Curtiss, Erie County Bank Bldg., has been awarded to the EASTERN CONCRETE STEEL CO., Morgan Bldg. Estimated cost, $70,000.

✚Katonah, N. Y.—The contract for the construction of a two-story sanatorium for W. Fahnestock, 2 Wall St., New York, has been awarded to STEVENSON & CAMERON, INC., 37 West 25th St., New York. The estimated cost is $45,000.

✚New Hartford, N. Y.—PIUS KERNER & SONS, Utica, has been awarded the contract for the construction of a four-story building for St. Elizabeth's Hospital, Genesee St. The estimated cost is $200,000. Noted Dec. 10.

New York, N. Y.—(Borough of Bronx)—The New York Central R.R. contemplates the construction of a station at Park Ave. and Spencer Pl. from 146th to 149th St. The estimated cost is $3,000,000. G. W. Kittredge is Ch. Engr.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by M. L. Emery and H. G. Emery, 68 Bible House, for the construction of an asylum at Kingsbridge Rd., Grand Blvd., Creston Ave. and 193rd St. for the Society for Relief of Destitute Blind, 896 Amsterdam Ave.

New York, N. Y.—(Borough of Brooklyn)—Lord & Hewlett, Arch., 345 Fifth Ave., New York, is preparing plans for the construction of additions and alterations to the Brooklyn Hospital, at De Kalk Ave. and Raymond St.

New York, N. Y.—(Borough of Manhattan)—Schwartz & Gross, Arch., 347 Fifth Ave., is preparing preliminary plans for the construction of a 13-story apartment house at Park Ave. and 81st St. for Edgar A. Levy, 505 Fifth Ave. The estimated cost is $500,000. Noted May 6.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by C. B. J. Snyder, Supt., Dept. of Education, Park Ave. and 59th St., until 3 p.m., July 22 for the general construction of Public School No. 3 at Grove and Hudson St.

New York, N. Y.—(Borough of Manhattan)—Bernhard Feifer, 109 East 81st St., has purchased a site at 111 East 81st St. upon which he will construct a nine-story apartment house.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Warren & Wetmore, Arch., 16 East 47th St., for the construction of an apartment house on Park Ave. from 55th to 56th St. The estimated cost is $1,600,000. Fullerton-Weaver Realty Co., 30 East 42nd St., is interested.

New York, N. Y.—(Borough of Manhattan)—The George Backer Realty Co. recently purchased a site at Madison Ave. and 29th St. upon which they will construct a commercial building. The estimated cost is $900,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Emory Roth, Arch., 405 Lexington Ave., for the construction of an apartment house at 568 Park Ave. for Bing & Bing, 119 West 40th St. The estimated cost is $400,000.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by William H. Birkmire, Arch., 1133 Broadway, for the construction of a sixteen-story store and loft building at 53 West 23rd St. upon the site of the Eden Musee. The estimated cost is $400,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Cross & Cross, Arch., 10 East 47th St., for the construction of a six-story store and apartment building at 414 Madison Ave., near 48th St., for David Dows. The estimated cost is $100,000.

✚New York, N. Y.—(Borough of Queens)—The contract for the construction of a one-story bank building on the Queensboro Bridge Plaza, between Jackson and Hunter Ave. for the Bank of Long Island, 359 Fulton St., Jamaica, has been awarded to JOHN H. DEEVES & BRO., 103 Park Ave., New York.

✚Orchard Park, N. Y.—(Official)—Bids will be received until July 7 by Robert North, Arch., Prudential Bldg., Buffalo, for the construction of a two-story school. The estimated cost is $50,000. Noted May 13 and June 24.

Port Chester, N. Y.—Bids will be received about July 8 for the construction of a three-story high school on Irving Ave. Hewitt & Bottomley, 597 Fifth Ave., New York, is Arch. The estimated cost is $120,000. Noted May 13.

Rochester, N. Y.—Eldridge, Comes & Kauzor, Arch., 316 Cutler Bldg., is preparing plans for the construction of a building at Lexington Ave. and Finch St. for the Holy Rosary Church. Estimated cost, $60,000. Arthur H. Hughes is Pastor.

Rochester, N. Y.—Plans are being prepared by Foster & Gade, Arch., Sibley Bldg., for the construction of a two-story auditorium on University Ave. for the University of Rochester. The estimated cost is $150,000. Rush Rhees is Pres.

✚Rochester, N. Y.—R. T. FORD CO., 200 South Ave., Rochester, has been awarded the general contract for the construction of School No. 14 at Scio St. near University Ave. The estimated cost is $214,000. J. S. Mullan is Secy., Bd. of Education. Noted June 3.

✚Rochester, N. Y.—The contract for the construction of an administration building and gymnasium for the Jewish Orphan Asylum on Genesee St. has been awarded to JOHN LUTHER & SONS, 176 North St., Rochester. Estimated cost, $45,000.

Scotia, N. Y.—The Trustees of the town of Glenville, District No. 2, contemplate the construction of a school. Estimated cost, $60,000. W. F. Gates, 141 Mohawk St., is Chn.

Yonkers, N. Y.—Bids will soon be received by the Masonic Guild, F. and A. M., for the construction of a four-story Masonic Temple on Guion St. and South Broadway. The estimated cost is $70,000. Beersman & Vollmer and Evart Tracy, 244 Fifth Ave., New York, are Assoc. Archs. Noted June 24.

✚Arlington, N. J.—The general contract for the construction of a three-story parochial school with two wings, at Midland Ave. and Chestnut St., for St. Stephens Congregation, has been awarded to ROBERT W. PATRICK, 100 Montclair Ave., Newark. Estimated cost, $70,000. Noted May 6.

Bayonne, N. J.—The Jersey City Construction Co., 75 Montgomery St., Jersey City, at $40,000, submitted the lowest bid for the construction of the Hudson County Parental Home. Noted Mar. 18 and May 27.

Hoboken, N. J.—Plans are being prepared by Briscoe & Fagan, Arch., 95 River St., for the construction of a three-story addition and alterations to School No. 8, Jefferson and Seventh St. Estimated cost, $60,000. Noted June 17.

Jersey City, N. J.—Bids will be received by the Board of Chosen Freeholders of Hudson County, Court House, until July 28 for the construction of a jail at Newark Ave. and Willow Court. Noted Dec. 17 and Mar. 18.

Jersey City, N. J.—The Board of Education plans to construct Public School No. 4. Estimated cost, $90,000. John Rowland, 100 Sip Ave., is Arch. and Fred Ege, City Hall, is Clk., Bd. of Education.

Morristown, N. J.—Bids will soon be received for the construction of a two-story library for the Morristown Library and Lyceum Association. The estimated cost is $50,000. Henry C. Pitney, 6 Washington St., is Chn. of Bldg. Com.

Newark, N. J.—E. M. Waldron, Inc., 84 South Sixth St., at $65,153, was the lowest bidder on the general contract for the construction of an administration building on Clifton Ave. Noted May 6 and June 3.

Newark, N. J.—The Newark Building & Construction Co. has purchased a site at Spruce and Charlton St. The company plans to construct a five-story store and apartment building to cost about $50,000.

Passaic, N. J.—Preliminary plans have been prepared for the construction of a three-story building on Lafayette Ave. for the Passaic General Hospital. The estimated cost is $100,000. W. L. Lyall is Chn. of Bldg. Com.

Paterson, N. J.—The Board of Education plans to construct an addition and remodel Public School No. 10. The estimated cost is $125,000. James F. Dunphy, City Hall, is Clk. and Fred Wentworth, 140 Market St., is Arch. Noted Oct. 1.

Skillman, N. J.—Plans have been prepared for the construction of a service building and two cottages for the State Village for Epileptics. The estimated cost is $75,000. George S. Drew, Trenton, is State Arch.

†West New York, N. J.—(Official)—The contract for the construction of a school at Broadway and 18th St. has been awarded to FREDERICK HEARTER, Hudson Ave. and 22nd St., at $110,435. Other bids were: T. F. Ayling, 205 16th St., $113,311; Jersey City Construction Co., 75 Montgomery St., Jersey City, $110,450; G. T. Kelly, Yonkers, N. Y., $112,607; De Knipe Construction Co., West Hoboken, $111,250. Noted Apr. 15 and June 17.

†Blairsville, Penn.—The Board of Education has awarded the general contract for the construction of a two-story, 77x133-ft., brick high school to KRATT & AGNEW, Lorain, Ohio, at $60,000.

Clearfield, Penn.—The School Board has commissioned Harrington & Howard, Arch., Dubois, to prepare plans for the construction of a two-story. 125x165-ft. high school. The cost is estimated at $75,000. Noted Apr. 29.

†Dickson City, Penn.—The general contract for the construction of a 1½-story, 47x96-ft. church for the congregation of St. Thomas Apostle has been awarded to BEILMAN & SON, Scranton. The estimated cost is $60,000.

Hershey, Penn.—Plans are being prepared by C. E. Urban, Arch., Woolworth Bldg., for the construction of a two-story brick and stone theater for M. S. Hershey. The estimated cost is $50,000.

Philadelphia, Penn.—Frederick Webber, Arch. Engr., Morris Bldg., is preparing plans for the construction of a 10-story, 100x120-ft. reinforced-concrete and brick building with one wing at Ninth and Sansom St. for the Wetherill Estate. The estimated cost is $200,000. Noted June 24.

†Philadelphia, Penn.—JOHN A. FISHER, 3621 North Fifth St., Philadelphia, has been awarded the contract for the construction of a two-story, reinforced-concrete and brick school at Hutchinson St. The estimated cost is $40,000.

Philadelphia, Penn.—Plans are being prepared for the construction of a school at Second, Pike and Sanger St. in the 35th Ward. The estimated cost is $80,000.

Philadelphia, Penn.—F. W. Van Loon, Denckla Bldg., at $86,641, submitted the lowest bid for the construction of a one- and two-story brick and concrete recreation building at Price and McMahon St. for the city. Philip H. Johnson, Land Title Bldg., is Arch.

Philadelphia, Penn.—H. H. Weymeyer, Philadelphia, at $122,863, was the lowest bidder for the construction of a three-story police and fire station at 22nd St. and Hunting Park Ave. Noted Apr. 22.

Philadelphia, Penn.—Bids are being received by the Property Committee of the Board of Education for the construction of a three-story school at Lime Kiln Pike and 65th Ave., East Germantown. Estimated cost, $350,000. Noted June 24.

Pittsburgh, Penn.—Plans are being prepared by E. B. Lee, Arch., Pittsburgh Savings Bank Bldg., for the construction of a 10- or 12-story brick and steel store and loft building at Smithfield St. and Seventh Ave. for the Henry W. Oliver Estate. The estimated cost is $300,000.

†Youngwood, Penn.—The Board of Education has awarded the general contract for the construction of a high school to WALTER & JONES, Scottdale. The estimated cost is $50,000. A. Brown is Secy. of Bd.

†Baltimore, Md.—The Board of Awards has awarded the contract for the construction of a school at Jefferson and Caroline St. to the D. M. ANDREW CONTRACTING CO., 600 Equitable Bldg., Baltimore, at $87,000.

Hagerstown, Md.—H. E. Yessler, Arch., has prepared plans for the construction of an eight-story hotel on West Franklin St. for the Maryland Real Estate Co.

†Washington, D. C.—The MELTON CONSTRUCTION CO., 1012 H St., N. W., has been awarded the contract for the construction of an apartment house at 16th and I St., N. W. The estimated cost is $200,000. Noted May 20.

Washington, D. C.—Kennedy Bros., 1334 H St., N. W., contemplates the construction of a concrete house at 16th St. and Crescent Pl., N. W. The estimated cost is $600,000.

STATE HIGHWAY, WASHINGTON

†Bids were received May 24 by William R. Roy, State Highway Comr., Olympia, Wash., for the construction of a portion of the Sunset Highway from Rocklyn to Creston, from: (A) Burnett Construction Co., Seattle; (B) West Coast Construction Co., Seattle; (C) Clifton Applegate, Spokane; (D) Quigg Construction Co., Seattle; (E) Carlson Chindahl Co., Spokane; (F) Spokane Feed & Fuel Co., Spokane; (G) MOHR CONSTRUCTION CO., Waterville (awarded contract); (H) Porter & Conley and Edward Wren, Kalama; (I) Mitchell Bros., Spokane; (J) Sloane Bros., Seattle; (K) G. L. Strickler, Davenport; (L) General Construction Co., Spokane. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
92,530 cu.yd. common excavation	$0.27	$0.32	$0.255	$0.23	$0.19	$0.25	$0.19	$0.23	$0.23	$0.22	$0.27	$0.23
25,900 cu.yd. solid rock excavation	1.00	0.90	1.20	1.00	1.10	1.21	0.85	1.35	1.15	0.80	1.05	0.96
3 acres clearing	150.00	50.00	20.00	10.00	30.00	35.00	8.00	10.00	35.00	40.00	40.00	35.00
14 cu.yd. riprap, hand placed	3.00	2.00	1.50	4.00	2.00	3.50	1.00	2.00	2.50	2.00	2.50	1.75
102 cu.yd. rubble masonry	8.00	6.00	5.00	8.00	7.00	6.50	6.00	8.00	5.00	8.00	6.00	4.00
35.5 cu.yd. concrete, Class 1	16.00	13.00	15.00	14.00	13.00	13.50	10.00	20.00	15.50	15.00	13.00	12.00
2750 lb. steel reinforcing bars in place	0.06	0.05	0.055	0.06	0.05	0.045	0.04	0.05	0.06	0.06	0.05	0.06
168 lin.ft. 12-in. plain concrete pipe in place	1.25	1.00	1.20	1.50	1.00	0.70	0.80	0.90	0.80	1.20	0.95	0.85
604 lin.ft. 18-in. plain concrete pipe in place	2.00	2.00	1.85	2.25	1.60	1.41	1.05	1.40	1.45	2.25	1.35	1.32
Loose rock excavation, per cu.yd.	0.75	0.75	0.49	0.65	0.55	0.80	0.45	0.45	0.60	0.40	0.55	0.37
Overhaul on material excavated, per cu.yd. each 100 ft.	0.03	0.03	0.02	0.025	0.02	0.015	0.025	0.02	0.015	0.02	0.01	0.02
Slope wall, per cu.yd.	5.00	6.00	4.00	6.00	3.00	3.50	2.75	6.00	4.00	2.50	2.50	2.00
Concrete, Class 2, per cu.yd.	12.00	12.00	14.50	12.00	11.00	12.50	9.50	18.00	13.50	14.00	11.00	11.00
Guard rails in place, including spikes and bolts, per lin.ft.	0.35	0.50	0.45	0.25	0.40	0.10	0.20	0.25	0.23	0.50	0.40	0.25
Timber and plank in place per M ft. b.m.	25.00	40.00	35.00	30.00	35.00	35.00	30.00	22.00	35.00	30.00	30.00	33.00
6-in. porous tile drains in place, per lin.ft.	0.20	0.80	0.40	0.60	0.20	0.20	0.35	0.15	0.25	0.45	0.25	0.18
8-in. porous tile drains in place, per lin.ft.	0.40	0.90	0.50	0.80	0.30	0.30	0.60	0.26	0.40	0.55	0.35	0.29
18-in. reinforced-concrete pipe in place, per lin.ft.	2.50	4.00	2.25	2.50	1.95	1.83	1.05	1.72	1.45	3.25	2.10	1.60
24-in. reinforced concrete pipe in place, per lin.ft.	3.50	6.00	3.00	4.00	2.75	2.83	2.25	2.58	2.15	4.00	3.25	2.30
30-in. reinforced concrete pipe in place, per lin.ft.	5.00	9.00	4.00	5.50	4.30	4.50	2.75	4.25	3.25	5.50	3.75	3.14
12-in. vitrified tile pipe in place, per lin.ft.	1.00	1.50	1.50	1.50	0.65	0.55	0.90	0.50	0.60	1.20	0.95	0.48
18-in. vitrified tile pipe in place, per lin.ft.	1.75	3.00	2.00	2.25	1.20	0.95	1.80	1.00	1.25	2.25	1.25	1.05
24-in. vitrified tile pipe in place, per lin.ft.	2.75	5.00	2.50	4.00	1.90	1.55	2.50	2.00	2.00	3.25	2.10	1.75
Extended totals	$54,342	$55,684	$57,268	$50,356	$48,636	$56,860	$41,479	$58,965	$53,442	$44,298	$54,519	$48,214

CALIFORNIA STATE HIGHWAYS

Bids were received May 24 by the California State Highway Commission, Sacramento, for the construction of Division VI, Route 10, Section A, Kings County, and Division VII, Route 4, Section A, Los Angeles County, parts of the State Highway, from: (A) Bent Bros., Los Angeles; (B) Taylor & Berliner, Los Angeles; (C) George S. Benson & Sons, Los Angeles; (D) John D. Marsh, Bakersfield; (E) W. A. Dontanville, Paso Robles; (F) Engineer's Estimate; (G) Leigh Garnsey, Los Angeles; (H) George Weigand, Lamanda Park; (I) Homer R. Kennedy and Frank Williams, Los Angeles; (J) White & Gaskill, Long Beach. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement and sand and coarse aggregate for concrete at a cost of $43,088 and $13,750 respectively, for the two highways. The item bids were as follows:

Kings County, Div. VI Route 10, Sect. A.	A	B	C	D	E	F
25,000 cu.yd. ordinary excavation	$0.84	$0.60	$0.65	$0.60	$0.60	$0.50
5000 cu.yd. borrow excavation	1.35	0.70	0.80	0.60	0.75	0.70
530 lin.ft. 12-in. corrugated pipe	0.65	0.50	0.75	0.80	0.50	0.35
488 lin.ft. 18-in. corrugated pipe	0.75	0.60	0.80	1.00	0.60	0.60
60 lin.ft. 24-in. corrugated pipe	0.95	0.70	0.90	1.20	0.75	0.85
30 lin.ft. 30-in. corrugated pipe	1.50	1.00	1.00	1.40	1.00	1.00
200 cu.yd. concrete, Class B culverts and monuments	20.00	10.00	10.00	20.00	11.00	10.00
8760 cu.yd. concrete pavement, Class B	4.15	4.00	3.00	3.20	3.75	2.90
1170 lin.ft. guard rail	0.50	0.50	0.60	0.50	0.40	0.50
54 monuments, hauling and setting	1.00	1.00	2.00	1.00	1.00	0.50
Extended totals	$69,555	$56,809	$50,212	$51,697	$54,955	$51,262

Los Angeles County, Div. VII, Route 4, Sect. A.	D	E	F	G	H	I	J
12,200 cu.yd. ordinary excavation	$0.60	$0.56	$0.40	$0.50	$0.60	$0.40	$0.55
102 lin.ft. 18-in. corrugated pipe	$0.80	$0.60	$0.45	$0.50	$0.75	$0.50	$0.75
74 lin.ft. 24-in. corrugated pipe	1.00	0.70	0.60	0.75	0.75	0.75	0.75
10 lin.ft. 36-in. corrugated pipe	1.20	1.00	0.90	1.00	1.00	1.00	1.00
95 cu.yd. concrete, Class B culverts and monuments	20.00	9.50	12.50	15.00	13.00	10.00	14.00
4120 cu.yd. concrete pavement, Class B	3.65	3.71	4.00	4.70	3.50	3.49	4.25
1756 lin.ft. guard rail	0.60	0.40	0.40	0.50	0.60	0.40	0.50
73 monuments, hauling and setting	1.00	1.00	0.50	1.00	1.50	1.00	1.00
Extended totals	$25,552	$23,918	$26,893	$27,956	$24,280	$21,101	$26,642

Washington, D. C.—Joseph J. Moebs, 817 G St., N. W., will construct a seven-story reinforced-concrete and brick apartment house at 18th and I St., N. W. Estimated cost, $60,000.

✚**Washington, D. C.**—The contract for the construction of a four-story, 75x75-ft. brick apartment house at 19th St. and Mintwood Pl., N. W., has been awarded to J. E. FOX, 37 R St., N. E. Estimated cost, $55,000.

Clarksburg, W. Va.—Plans have been prepared for the construction of a four-story building at Water and Mechanic St. to replace the Kessler Hospital. The estimated cost is $75,000. Noted June 24.

✚**Parkersburg, W. Va.**—The general contract for the construction of alterations to the Wood County Bank at Fifth and Market St. has been awarded to H. H. VOUGHT & CO., 70 East 45th St., New York. Estimated cost, $40,000. Denneson & Harris, 475 Fifth Ave., New York, N. Y., is Arch.

Gastonia, N. C.—At a recent election the citizens voted in favor of the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of schools. Noted June 17.

Atlanta, Ga.—Plans are being prepared by W. T. Downing, Arch., for the construction of a 10-story building at Walton and Fairlie St. for Frank Hawkins, Pres. of Third National Bank. Estimated cost, $100,000.

✚**Atlanta, Ga.**—The contract for the construction of a four-story school on South Pryor St. has been awarded to THOMAS J. & ALBERT L. DAY, at $50,000. Walker & Chase is Arch.

✚**Chatsworth, Ga.**—The County Commissioners have awarded the contract for the construction of a three-story, 60x80-ft. concrete court house to H. J. CARR & CO., Atlanta. The estimated cost is $50,000. A. Blair, Macon, is Arch.

Bradentown, Fla.—Plans are being prepared by J. [illegible] Goin, Cummings Bldg., for the construction of a four-story, [illegible]x168-ft. store and hotel building. Estimated cost, $45,000. G. E. Blumenauer is Constr. Engr.

New Smyrna, Fla.—At a recent election the citizens voted in favor of the question of issuing $42,000 in bonds, the proceeds of which will be used for the construction of a two-story school. A. E. Lewis, Real Estate Bldg., Miami, is Arch.

Palmetto, Fla.—An election will be held July 10 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a school. C. E. Haley is Chn. of School Bd.

Titusville, Fla.—The Board of Public Instruction will construct a grade and high school. The estimated cost is $65,000. A. E. Lewis, Miami, is Arch.

✚**Andalusia, Ala.**—The Commissioners of Covington County have awarded the contract for the construction of a court-house to the LITTLE-CLECKER CONSTRUCTION CO., Anniston. The estimated cost is $70,000.

Birmingham, Ala.—Plans are being prepared by Miller & Martin, Arch., for the construction of a two-story, reinforced-concrete and terra-cotta store building on 20th St. The estimated cost is $45,000.

Vicksburg, Miss.—Plans are being prepared by Leon C. Weis, Arch., New Orleans, La., for the construction of a clubhouse for the M'nai B'rith Society. The estimated cost is $50,000. J. Hirsh is Pres.

CALIFORNIA STATE HIGHWAY
Colusa County, Division III, Route 7, Section C

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division III, Route 7, Section C, of the State Highway in Colusa County, from: (A) W. B. Hunt & Sons, Alameda; (B) Taylor & Berliner, Los Angeles; (C) Cammary Peterson Co., Inc., San Francisco; (D) L. F. Gerdetz, San Francisco; (E) Bent Bros., Los Angeles; (F) James Fitzpatrick, Sacramento; (G) Marin Rock Co., San Anselmo; (H) C. H. & A. W. Gorrill, San Francisco; (I) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement, sand and coarse aggregate amounting to $52,623. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
11,000 cu.yd. excavation, unclassified	$0.62	$0.70	$0.60	$0.45	$0.95	$0.50	$0.75	$0.70	$0.75
60 lin.ft. 12-in. corrugated iron pipe	0.60	0.50	1.00	0.75	0.50	0.50	0.45	0.50	0.50
180 lin.ft. 18-in. corrugated iron pipe	0.70	0.60	1.50	1.00	0.56	0.60	0.65	0.75	0.50
60 lin.ft. 24-in. corrugated iron pipe	0.80	0.70	2.00	1.25	0.60	0.70	0.75	1.00	0.50
360 cu.yd. concrete, Class "B"	10.00	10.00	12.00	9.00	11.20	8.00	9.00	10.00	10.00
10,400 cu.yd. concrete pavement	3.00	2.90	3.10	3.00	3.70	3.25	2.84	2.85	2.90
750 lin.ft. guard rail	0.50	0.40	0.25	0.40	0.40	0.40	0.32	0.35	0.35
62 monuments, hauling and setting	0.60	1.00	1.00	1.00	0.95	1.00	1.50	1.00	1.00
Extended totals	$42,242	$42,002	$43,859	$40,052	$53,488	$42,722	$41,548	$41,489	$48,857

CALIFORNIA STATE HIGHWAY
Monterey County, Division V, Route 2, Section B

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division V, Route 2, Section B of the State Highway in Monterey County, from: (A) W. A. Dontanville, Paso Robles; (B) Manuel Jacinto, Sacramento; (C) Lou G. Hare, Salinas; (D) C. H. & A. W. Gorrill, San Francisco; (E) James Fitzpatrick, Sacramento; (F) Peterson & Grier, San Francisco; (G) Hoffman & McLaren, Oakland; (H) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement, sand and coarse aggregate amounting to $45,352. The item bids were as follows:

	A	B	C	D	E	F	G	H
11,200 cu.yd. excavation, unclassified	$0.60	$0.60	$0.57	$0.85	$0.70	$0.65	$0.70	$0.40
710 lin.ft. 12-in. corrugated iron pipe	0.50	1.00	0.40	0.50	0.50	0.50	0.50	0.40
245 lin.ft. 18-in. corrugated iron pipe	0.60	1.00	0.60	0.60	0.75	0.75	0.75	0.45
135 lin.ft. 24-in. corrugated iron pipe	0.70	1.00	0.80	0.90	1.00	1.00	1.00	0.55
120 cu.yd. concrete, Class "B"	9.50	10.00	12.00	10.00	15.00	12.00	11.00	8.70
4600 cu.yd. concrete pavement	2.55	3.70	3.10	3.77	4.00	3.00	4.00	4.30
220 lin.ft. guard rail	0.40	0.40	0.35	0.35	0.50	0.40	0.50	0.40
66 monuments, hauling and setting	1.00	2.00	0.50	1.00	1.00	1.50	1.00	0.50
Extended totals	$20,340	$26,250	$22,733	$28,828	$28,890	$23,381	$28,410	$29,777

STATE HIGHWAY, WHITMAN COUNTY, WASHINGTON

✚Bids were received, May 24, by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Inland Empire Highway, from Colfax, south in Whitman County, from: (A) Henry Styles, Tacoma; (B) Carlson Chindahl Co., Spokane; (C) W. G. Mulligan & Co., Spokane; (D) H. L. WILSON CO., Walla Walla (awarded contract); (E) G. L. Stickler Co., Davenport; (E) General Construction Co., Spokane; (G) O. F. Leonard, North Yakima; (H) Mitchell Bros. & Payne, Spokane; (I) Dunn & Hogan, North Yakima; (J) Boomer & Hughes, Spokane. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
40,720 cu.yd. common excavation, including haul of 400 ft.	$0.25	$0.19	$0.20	$0.20	$0.21	$0.17	$0.19	$0.215	$0.175	$0.22
250 cu.yd. loose rock excavation, including haul of 400 ft.	0.50	0.50	0.45	0.45	0.45	0.50	0.60	0.50	0.40	0.40
2740 cu.yd. solid rock excavation, including haul of 400 ft.	1.25	1.00	1.20	0.95	1.15	1.07	1.50	1.10	1.00	1.25
28,500 cu.yd. overhaul on any of the above materials, per each 100 ft.	0.015	0.02	0.01	0.0125	0.01	0.015	0.02	0.0125	0.02	0.02
Rip rap, hand placed per cu.yd.	3.50	2.00	3.00	2.50	2.50	2.00	2.50	2.50	1.50	2.50
Slope wall, per cu.yd.	4.00	3.00	1.70	2.50	3.00	2.25	3.00	4.00	1.75	3.50
Rubble masonry, per cu.yd.	6.00	8.00	4.50	5.00	6.50	5.00	8.00	5.00	4.00	11.50
55.0 cu.yd. concrete, first class	5.00	14.00	15.50	12.50	13.00	13.00	13.50	14.00	11.75	15.00
3320 cu.yd. concrete, second class	4.00	12.00	14.00	11.50	12.00	11.75	12.00	12.00	11.00	13.50
8800 lb. steel I-beams and structural shapes in place	0.10	0.07	0.055	0.04	0.05	0.06	0.075	0.055	0.06	0.055
1350 lb. steel reinforcing bars in place	0.10	0.05	0.05	0.04	0.05	0.06	0.06	0.055	0.04	0.05
1840 sq.ft. expanded metal in place	0.10	0.10	0.10	0.08	0.08	0.065	0.10	0.09	0.18	0.08
880 sq.ft. chicken wire in place	0.05	0.04	0.015	0.02	0.03	0.03	0.06	0.05	0.06	0.03
210 lin.ft. pipe rail in place	1.00	1.00	0.45	0.75	0.50	0.65	0.80	0.50	0.20	0.80
Guard rail in place, including spikes and bolts per lin.ft.	0.40	0.40	0.70	0.30	0.40	0.25	0.30	0.25	0.12	0.25
Timber and plank in place, including spikes and bolts per lin.ft. b.m.	40.00	35.00	39.00	30.00	30.00	35.00	33.00	32.00	25.00	30.00
80 lin.ft. porous tile drains in place, 6 in.	0.30	0.20	0.16	0.15	0.25	0.18	0.25	0.25	0.35	0.30
Porous tile drains in place, 8 in. per lin.ft.	0.45	0.30	0.30	0.20	0.35	0.29	0.40	0.40	0.45	0.45
Plain concrete pipe in place, 12 in. per lin.ft.	1.00	1.00	0.55	0.65	0.95	0.87	1.30	0.80	1.00	0.70
694 lin.ft. plain concrete pipe in place, 18 in.	1.85	1.60	1.25	0.75	1.35	1.35	2.00	1.45	1.50	1.45
Reinforced concrete pipe in place, 18 in. per lin.ft.	2.60	1.95	1.65	0.95	2.10	1.65	2.50	1.45	1.75	1.45
146 lin.ft. reinforced concrete pipe in place, 24 in.	3.85	2.75	2.60	1.25	3.25	2.40	3.25	2.15	2.25	2.20
Reinforced concrete pipe in place, 30 in. per lin.ft.	4.50	4.50	4.50	1.50	3.75	3.25	3.75	3.25	3.00	3.00
Reinforced concrete pipe in place, 36 in. per lin.ft.	6.00	5.15	5.25	2.00	4.75	4.08	4.50	4.25	3.90	4.00
Vitrified tile pipe in place, 12 in. per lin.ft.	1.00	0.65	0.50	0.40	1.00	0.52	1.30	0.60	0.75	1.00
Vitrified tile pipe in place, 18 in. per lin.ft.	1.80	1.20	1.25	0.60	1.25	1.15	1.80	1.25	1.25	1.80
Vitrified tile pipe in place, 24 in. per lin.ft.	3.60	1.90	2.40	0.95	2.10	1.85	2.50	2.00	1.75	2.75
Concrete arch, 40-ft. span (lump sum)	2750.00	2361.00	2470.00	2065.00	2450.00	2041.00	1726.00	3200.00	2200.00	2400.00
Extra concrete per cu.yd.	.....	.....	.....	13.00	.....	.....	13.00	.....	.....	.....
Extended totals	$257,03	$20,927	$21,903	$19,229	$21,466	$19,257	$22,047	$22,417	$19,440	$23,005

✚**Bastrop, La.**—The Parish Board of School Directors has awarded the general contract for the construction of a high school to FRANK MASTING, Monroe, at $55,287. W. L. Stevens, New Orleans, is Arch. Noted June 3.

Chattanooga, Tenn.—Plans are being prepared by W. M. De Kalb, Arch., for the construction of the Shenn Memorial Church at Main and Hickory St. for the Universalist Church. The estimated cost is $50,000.

Nashville, Tenn.—At a recent election the citizens voted in favor of the question of issuing $600,000 in bonds. The proceeds will be used for the construction of schools.

Ashland, Ky.—An election will be held July 5 to vote on the question of issuing $125,000 in bonds, the proceeds of which will be used for the construction of a city jail and market house.

✚**Lexington, Ky.**—The contract for the construction of a church for the Maxwell Street Presbyterian Congregation has been awarded to A. G. McGREGOR, Lexington. Estimated cost, $40,000. Richards, McCarthy & Bulford, Columbus, Ohio, is Arch.

✚**Louisville, Ky.**—The contract for the construction of the Belknap School has been awarded to the ALT BUILDING CO., Louisville, at $68,500.

Canton, Ohio—Bids will be received until noon, July 8, by W. C. Lane, Clk., Bd. of Education, for the construction of a three-story, brick school at Third St., S. E., to be known as the Henry S. Martin School. The estimated cost is $75,000. Frank L. Packard, 1212 Tayden Bldg., Columbus, is Arch.

Cincinnati, Ohio—The Board of Trustees of the Chamber of Commerce is considering the construction of a building. The estimated cost is $1,000,000.

STATE HIGHWAY, LEWIS AND COWLITZ COUNTIES, WASHINGTON

✚Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Pacific Highway in Lewis and Cowlitz Counties, from Toledo south, from: (A) Allred & James, Centralia; (B) M. P. Zindorf, Alaska Bldg., Seattle; (C) A. J. Miesen and J. A. Sandell, Chehalis; (D) Cochran, Nutting & Co., St. Johns, Ore.; (E) ANDREW & HARRER, Portland, Ore. (awarded contract); (F) Hendricks, Ward, Ryan & Gray, Chehalis; (G) Sloane Bros., Seattle; (H) Jeffrey & Bufton, Union Ave. and East Davis St., Portland, Ore. The item bids were as follows:

	A	B	C	D	E	F	G	H
38,160 cu.yd. excavation, including haul of 400 ft.	$0.34	$0.30	$0.40	$0.30	$0.26	$0.29	$0.30	$0.47
22,800 cu.yd. overhaul on above material, per each 100 ft.	0.05	0.015	0.025	0.03	0.02	0.02	0.015	0.02
21.1 acres clearing	150.00	93.00	114.00	75.00	80.00	170.00	100.00	200.00
28.2 acres grubbing	200.00	130.00	274.00	125.00	140.00	150.00	100.00	206.00
25.0 cu.yd. riprap hand placed	8.00	2.50	4.50	3.50	4.00	3.00	3.00	4.60
9 cu.yd. concrete, first class	20.00	14.00	13.10	18.00	16.50	12.00	15.00	17.00
54 cu.yd. concrete, second class	15.00	10.00	13.10	16.00	15.50	10.00	12.00	15.00
1280 lb. steel reinforcing bars in place	0.10	0.05	2.56	0.07	0.05	0.06	0.06	0.05
Lin.ft. guard rail in place, including spikes and bolts	0.25	0.30		0.20	0.30	0.25	0.30	0.35
9.0 M ft. b.m. timber and plank in place, including spikes and bolts	25.00	22.00	26.00	22.50	28.00	25.00	25.00	20.00
Porous tile drains in place, 4-in. per lin.ft.	0.15	0.50	0.20	0.15	0.20	0.25	0.35	0.20
Porous tile drains in place, 6-in. per lin.ft.	0.25	0.60	0.30	0.20	0.25	0.35	0.45	0.35
Porous tile drains in place, 8-in. per lin.ft.	0.35	0.70	0.45	0.25	0.30	0.50	0.50	0.40
594 lin.ft. plain concrete pipe in place, 12-in.	2.50	1.00	1.22	1.10	1.25	1.00	1.10	2.00
246 lin.ft. plain concrete pipe in place, 18-in.	3.50	2.00	1.84	1.60	2.75	2.00	2.25	3.00
Reinforced concrete pipe in place, 18-in. per lin.ft.	5.00	3.00	2.61	2.50	3.00	2.75	3.25	3.50
68 lin.ft. reinforced concrete pipe in place, 24-in.	6.50	3.50	3.89	3.75	4.25	3.75	4.25	5.00
Reinforced concrete pipe in place, 30-in. per lin.ft.	7.00	4.00	4.50	4.25	4.90	5.00	4.75	5.50
84 lin.ft. reinforced concrete pipe in place, 36-in.	8.00	4.50	5.93	6.50	5.50	6.00	5.00	6.00
Reinforced concrete pipe in place, 42-in. per lin.ft.	8.75	10.00	7.65	9.50	6.00	8.00	8.00	7.00
Vitrified tile pipe in place, 12-in. per lin.ft.	1.50	1.00	0.75	1.00	1.00	1.00	1.10	1.50
Vitrified tile pipe in place, 18-in. per lin.ft.	3.00	1.75	1.50	1.50	1.75	1.50	2.25	2.00
Vitrified tile pipe in place, 24-in. per lin.ft.	4.50	3.00	2.50	2.00	3.00	2.50	3.50	3.50
Extended totals	$27,922	$20,111	$32,355	$20,493	$19,585	$22,209	$19,796	$32,328

STATE HIGHWAY, THURSTON COUNTY, WASH.

✚Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Pacific Highway from Lacey to Nisqually, in Thurston County, from: (A) Burnett Construction Co., Seattle; (B) Allred & James, Centralia; (C) L. H. GOERIG, 1027 Bellevue Court, Seattle (awarded contract); (D) West Coast Construction Co., Seattle; (E) Porter & Conley, Kalama; (F) Arvid Rydstrom, Tacoma; (G) Rignell & Rankston, Tacoma; (H) Matson & Carlson, Tacoma; (I) Charles N. & Erle Maxham, Tacoma; (J) Sloane Bros., Seattle; (K) Washington Paving Co., Tacoma; (L) Torger Peterson, Eatonville; (M) M. P. Zindorff, Seattle. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
50,320 cu.yd. excavation, including haul of 400 ft.	$0.26	$0.34	$0.24	$0.30	$0.32	$0.35	$0.26	$0.25	$0.30	$0.27	$0.38	$0.32	$0.245
32,600 cu.yd. overhaul on above material per each 100 ft.	0.02	0.05	0.015	0.025	0.02	0.02	0.015	0.0175	0.01	0.02	0.015	0.015	0.015
8.6 acres clearing	175.00	125.00	100.00	150.00	100.00	75.00	100.00	125.00	125.00	180.00	150.00	150.00	63.00
5.5 acres grubbing	200.00	200.00	100.00	200.00	150.00	100.00	175.00	150.00	125.00	75.00	100.00	100.00	65.00
Riprap, hand placed per cu.yd	4.00	8.00	4.00	6.00	3.00	3.50	6.00	4.00	3.50	3.00	2.50	2.25	3.00
70 cu.yd. concrete, first class	14.00	20.00	12.00	14.00	14.00	12.00	12.00	12.00	12.00	15.00	12.00	10.00	15.00
2 cu.yd. concrete, second class	12.00	15.00	11.00	12.00	12.00	10.00	10.00	11.00	11.00	7.00	10.00	8.00	12.00
5,600 lb. steel reinforcing bars in place	0.06	0.10	0.06	0.06	0.06	0.08	0.10	0.05	0.07	0.06	0.05	0.05	0.06
1800 lin.ft. guard rail in place, including spikes and bolts	0.30	0.25	0.10	0.30	0.25	0.25	0.35	0.30	0.25	0.35	0.25	0.20	0.20
30 M ft. timber and plank in place, including spikes and bolts	20.00	25.00	20.00	20.00	28.00	25.00	20.00	20.00	22.50	20.00	25.00	20.00	22.00
Porous tile drains in place, 4-in. per lin.ft.	0.15	0.15	0.25	0.40	0.25	0.20	0.25	0.20	0.18	0.30	0.30	0.15	0.40
Porous tile drains in place, 6-in. per lin.ft.	0.20	0.25	0.30	0.60	0.40	0.30	0.30	0.30	0.20	0.40	0.35	0.20	0.50
Porous tile drains in place, 8-in. per lin.ft.	0.40	0.35	0.35	0.80	0.60	0.40	0.35	0.50	0.25	0.50	0.60	0.35	0.65
72 lin.ft. plain concrete pipe in place, 12-in.	1.00	2.50	1.25	1.30	1.00	1.30	1.50	0.90	0.50	1.20	1.00	1.00	1.00
92 lin ft. plain concrete pipe in place, 18-in.	1.90	3.50	2.00	2.25	2.00	2.00	2.50	2.00	1.00	2.25	1.75	1.25	2.00
Reinforced concrete pipe in place, 18-in. per lin.ft.	2.50	4.50	2.50	4.00	2.50	3.00	3.00	3.00	1.00	3.25	2.50	2.50	3.00
50 lin.ft. reinforced concrete pipe in place, 24-in.	3.50	5.50	3.00	6.00	4.00	4.00	4.50	4.00	1.75	4.00	3.00	3.50	3.50
Reinforced concrete pipe in place, 30-in. per lin.ft.	6.00	6.50	4.50	7.00	5.00	5.00	6.00	6.00	2.75	5.00	6.00	3.50	4.00
Vitrified tile pipe in place, 12-in. per lin.ft.	0.80	1.50	1.25	1.20	1.00	1.50	1.50	0.90	0.65	1.20	1.00	0.75	1.20
Vitrified tile pipe in place, 18-in. per lin.ft.	1.75	3.00	2.00	2.10	1.75	2.50	2.50	2.00	1.25	2.25	1.75	1.50	1.85
Vitrified tile pipe in place, 24-in. per lin.ft.	2.75	4.50	3.00	3.00	2.75	3.50	4.00	4.00	2.00	3.00	2.50	2.25	3.00
Extended totals	$19,242	$24,880	$16,378	$21,381	$21,525	$22,444	$18,608	$17,781	$19,779	$19,322	$24,173	$20,749	$16,589

CALIFORNIA STATE HIGHWAYS
Humboldt County, Division I, Route 1, Section E

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division I, Route 1, Section E, a part of the State Highway in Humboldt County. The bidders were: (A) W. B. Hunt & Sons, Alameda; (B) Frank L. Smith Co., Eureka; (C) Bates, Borland & Ayer, Oakland; (D) A. C. McLean Construction Co., San Francisco; (E) L. F. Gerdetz, San Francisco; (F) Twohy Bros. Co., San Francisco; (G) Hoffman & McLaren, Oakland; (H) Fairbanks & Baechtel, Willits; (I) James Fitzpatrick, Sacramento; (J) Mercer-Fraser Co., Eureka; (K) G. W. Conners, Eureka; (L) F. Rolandi, San Francisco; (M) W. A. Baechtel, Alton; (N) A. Robinson & R. R. Smith, Fortuna; (O) Crowley, Clomey & Green, Eureka; (P) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe and portland cement amounting to $20,021. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
89,000 cu.yd. excavation unclassified	$0.70	$0.69	$0.52	$0.70	$0.50	$0.72	$0.55	$0.58	$0.65	$0.645	$0.5975	$0.77	$0.69	$0.64	$0.74	$0.55
1466 lin.ft. 12-in. corrugated iron pipe	0.60	0.60	0.50	0.50	0.60	0.65	0.40	0.55	0.60	0.55	0.45	0.60	1.00	0.55	0.60	0.55
316 lin.ft. 15-in. corrugated iron pipe	0.70	0.70	0.60	0.60	0.75	0.75	0.50	0.65	0.75	0.70	0.50	0.75	1.00	0.67	0.80	0.65
354 lin.ft. 18-in. corrugated iron pipe	0.80	0.70	0.75	0.70	1.00	0.90	0.60	0.75	1.00	0.80	0.55	0.90	1.00	0.75	1.00	0.80
412 lin.ft. 24-in. corrugated iron pipe	0.90	0.75	1.00	1.00	1.20	1.30	1.00	1.00	1.25	1.10	0.60	1.25	1.00	1.00	1.25	1.10
274 lin.ft. 30-in. corrugated iron pipe	1.00	0.75	1.50	1.50	1.50	2.30	1.50	1.00	1.50	1.60	0.70	1.75	1.00	1.50	1.50	1.60
342 cu.yd. concrete, Class "B", (culverts and monuments)	10.00	12.00	15.00	15.00	14.00	13.50	10.00	14.00	14.00	12.00	12.00	15.00	12.50	12.00	15.00	12.00
7.3 miles moving and resetting property fences	200.00	150.00	200.00	200.00	350.00	180.00	200.00	250.00	200.00	250.00	160.00	200.00	200.00	240.00	300.00	250.00
180 monuments, hauling and setting	0.60	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.50	1.00	1.00	1.00	0.50	1.00	0.50
Extended totals	$69,317	$68,607	$55,061	$71,063	$54,399	$72,865	$55,790	$60,376	$66,765	$65,806	$60,081	$77,730	$70,147	$65,012	$75,772	$65,729

Cincinnati, Ohio—The Members of the Mystic Shrine of Cincinnati have purchased the old Guilford School property on Sycamore St. near Fourth St., upon which they will construct a building. The estimated cost is $1,000,000.

Cincinnati, Ohio—The Directors of the Longview Hospital have petitioned the Hamilton County Commissioners to vote on the question of issuing $250,000 in bonds, the proceeds of which will be used for the construction of additions to their present buildings.

+Cleveland, Ohio—The contract for the construction of a hotel for the Stillman Amusement Co., Buffalo, N. Y., has been awarded to the CROWELL, LUNDOFF, LITTLE CO., 1951 East 57th St., Cleveland. The estimated cost is $700,000. Noted Apr. 15.

Cleveland, Ohio—The Cleveland & Youngstown R.R. Co. will construct freight and passenger terminals at Broadway and Orange Ave. O. P. Van Sweringen, Marshall Bldg., is Pres.

Cleveland, Ohio—Plans are being prepared by Richard Irvin, Arch., Union Bank Bldg., Pittsburgh, Penn., for the construction of an eight-story reinforced-concrete and brick building at Lakeside Ave. and East Third St. for Harry J. Schlosser, Erie, Penn. Estimated cost, $120,000.

Cleveland, Ohio—Bids will be received until 4 p. m. July 9, by Carl Lorenz, Secy., Cleveland Public Library, 1375 Euclid Ave., for the construction of a library at East 79th St. near Superior Ave. Noted Feb. 25 and June 10.

Cleveland, Ohio—Plans are being prepared and bids will soon be received for the construction of a dancing academy at East 105th St. and Euclid Ave. for H. O. Osgood. The estimated cost is $50,000. Noted May 6.

Cleveland, Ohio—Bids will be received about July 20 by W. S. Lougee, Arch., Marshall Bldg., for the construction of additions and alterations to the Meckes Home and at Franklin Ave., N. W. The building will be used as a county juvenile detention home. The estimated cost is $65,000. Noted Mar. 25.

WESTON AQUEDUCT SUPPLY MAINS, NEWTON, MASS.
Section 5

+Bids were received Apr. 26 by the Metropolitan Water Board, Boston, for laying water pipes in Newton, Section 5 of the Weston Aqueduct Supply Mains, from: (A) ANDREW M. CUSACK, Boston (awarded contract); (B) James L. Pierce & Co., Boston; (C) Rowe Contracting Co., Boston; (D) Coleman Bros., Boston; (E) Bruno & Petitti, Boston; (F) John P. Cavanaugh Co., Boston; (G) M. Russo & Son Co., Boston; (H) Charles A. Kelly, Somerville; (I) Hugh Nawn Contracting Co., Boston; (J) John T. Shea, Jr., Boston; (K) Moore & Co., Boston. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K
8000 lin.ft. laying 60-in. c.i. pipe	$3.74	$3.85	$3.85	$4.10	$4.15	$4.25	$4.30	$4.40	$4.50	$4.48	$5.75
110 lin.ft. laying 12-in. c.i. pipe, for blow-offs	1.00	1.00	1.25	1.00	1.00	1.75	1.50	1.25	2.00	1.00	1.00
682 cu.yd. rock excavation above grade	7.40	5.00	6.00	4.00	3.00	8.00	8.00	6.00	4.00	7.00	8.00
5 cu.yd. rock excavation below grade	7.40	5.00	6.00	5.00	4.00	8.00	8.00	6.00	6.00	10.00	10.00
30 cu.yd. earth excavation below grade	1.50	1.00	2.00	1.00	1.25	2.00	1.60	1.00	1.00	1.50	1.75
5 chambers for air valves	49.00	40.00	50.00	30.00	40.00	50.00	50.00	50.00	50.00	50.00	30.00
4 chambers for blow-off and by-pass valves	55.00	50.00	60.00	95.00	50.00	60.00	65.00	75.00	50.00	60.00	35.00
1 chamber for 36-in. valve	55.00	50.00	60.00	95.00	60.00	60.00	80.00	75.00	60.00	75.00	60.00
60 cu.yd. concrete masonry	6.75	5.00	6.50	7.00	7.00	8.00	7.00	7.00	7.50	7.00	10.00
Extended totals	$32,369	$32,615	$33,047	$34,730	$34,787	$36,762	$37,103	$37,522	$37,960	$38,290	$48,602

SEWER SYSTEM AND SEWAGE-DISPOSAL PLANT, CLEBURNE, TEX.

+Bids were received June 4 by Charles Wilhite, City Secy., for the construction of a sanitary sewer system and a sewage-disposal plant from (A) HAMILTON BROS., Houston (awarded contract); (B) Brown Bros., Kansas City, Mo.; (C) Bash & Janes, Joplin, Mo.; (D) William F. Riley, St. Louis, Mo.; (E) Roach Manigan, Ft. Worth; (F) James A. Pringle, Carthage, Mo.; (G) Henry Rees, Quincy, Ill.; (H) George O. White & Co., Memphis, Tenn.; (I) Tonkawa Construction Co., Kansas City, Mo.; (J) Edgar Main, Liberty, Mo.; (K) J. R. Sutherlin Construction Co., Kansas City, Mo.; (L) Intermountain Bridge & Construction Co., Tecumseh, Neb.; (M) H. C. Gass, San Antonio; (N) Winslett Eldridge Co., Dallas; (O) Bailey Reeder Co., Mobile, Ala.; (P) Koehler-Fowler Construction Co., Memphis, Tenn.; (Q) V. M. Washem & Co., Waco; (R) H. K. McCullum, Ft. Worth; (S) McKenzie Construction Co., San Antonio. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
125,278 lin.ft. 8-in. vitrified sewer pipe	$0.18	$22.5	$0.25	$0.24	$0.22	$0.22	$0.23	$0.21	$0.25	$0.22
18,575 lin.ft. 10-in. vitrified sewer pipe	0.25	0.29	0.34	0.30	0.28	0.29	0.295	0.26	0.34	0.31
13,791 lin.ft. 12-in. vitrified sewer pipe	0.40	0.37	0.42	0.40	0.36	0.36	0.35	0.33	0.45	0.39
6280 lin.ft. 15-in. vitrified sewer pipe	0.60	0.525	0.60	0.60	0.55	0.52	0.50	0.47	0.65	0.60
2956 lin.ft. 18-in. vitrified sewer pipe	0.85	0.77	0.95	0.80	0.78	0.75	0.71	0.70	0.90	0.83
8781 lin.ft. 21-in. vitrified sewer pipe	1.15	1.11	1.35	1.00	1.20	1.10	0.93	1.02	1.40	1.05
12 lin.ft. 8-in. c.i. pipe	0.60	0.90	0.80	1.00	0.875	1.00	1.00	0.90	0.80	0.75
60 lin.ft. 10-in. c.i. pipe	0.825	1.08	1.00	1.25	1.05	1.25	1.25	1.20	1.00	1.00
24 lin.ft. 12-in. c.i. pipe	1.05	1.44	1.30	1.50	1.32	1.75	1.50	1.50	1.40	1.10
120 lin.ft. 18-in. c.i. pipe	1.87	2.70	2.40	1.00	1.96	2.50	2.50	2.00	2.40	1.75
264 lin.ft. 21-in. c.i. pipe	2.25	3.10	2.80	4.00	2.50	3.25	2.50	2.90	3.00	2.10
115,615 lin.ft. 6 ft. trench	0.12	0.16	0.11	0.17	0.14	0.15	0.16	0.22	0.18	0.10
27,660 lin.ft. 6 ft. to 8 ft. trench	0.25	0.19	0.13	0.20	0.20	0.20	0.20	0.27	0.20	0.16
27,060 lin.ft. 8 ft. to 10 ft. trench	0.29	0.24	0.21	0.30	0.40	0.30	0.25	0.35	0.25	0.27
3675 lin.ft. 10 ft. to 12 ft. trench	0.40	0.60	0.60	0.50	0.60	0.40	0.30	0.50	0.35	0.30
1690 lin.ft. 12 ft. to 16 ft. trench	0.88	0.90	0.90	0.90	0.75	0.60	0.45	0.90	0.60	0.98
3140 6-in. on 8-in. Y-connections	0.72	0.35	0.35	0.25	0.35	0.40	0.37	0.40	0.45	0.35
335 6-in. on 10-in. Y-connections	0.97	0.50	0.55	0 30	0.45	0.55	0.47	0.60	0.60	0.57
255 6-in. on 12-in. Y-connections	1.26	0.60	0.75	0.40	0.75	0.65	0.60	0.75	0.75	0.75
57 6-in. on 15-in. Y-connections	1.81	1.00	1.00	0.50	1.25	1.00	0.865	1.00	1.10	1.00
35 6-in. on 18-in. Y-connections	2.80	1.40	1.30	0.70	1.65	1.50	1.30	1.50	1.60	1.25
286 manholes	49.00	27.00	25.00	28.00	29.00	27.50	30.00	25.00	24.00	30.00
50 flush tanks	75.00	64.00	55.00	60.00	65.00	55.00	62.00	55.00	62.00	65.00
52 lampholes	6.00	7.00	7.00	7.00	10.00	7.50	8.00	6.00	8.00	6.00
11900 cu.yd. rock excavation	1.00	1.80	1.25	1.75	1.50	2.25	2.50	1.75	1.50	2.75
151.5 portland cement	11.00	9.00	9.00	7.00	9.00	10.00	7.00	10.00	8.00	10.00
Lumber	30.00	40.00	15.00	30.00	30.00	40.00		30.00	30.00	20.00
Sewage disposal plant complete	28,194.00	24,000.00	34,400.00	24,000.00	31,409.96	28,975.00	25,648.00	26,000.00	26,000.00	29,435.00
Extended totals	$144,527	$148,818	$151,187	$152,468	$155,296	$155,328	$156,408	$156,832	$156,833	$158,450

	K	L	M	N	O	P	Q	R	S
125,278 lin.ft. 8-in. vitrified sewer pipe	$0.20	$0.20	$0.18	$0.22	$0.25	$20.5	$0.25	$0.26	$0.26
18,575 lin.ft. 10-in. vitrified sewer pipe	0.27	0.30	0.24	0.27	0.34	26.5	0.33	0.33	0.34
13,791 lin.ft. 12-in. vitrified sewer pipe	0.36	0.40	0.32	0.37	0.44	33.5	0.41	0.43	0.43
6280 lin.ft. 15-in. vitrified sewer pipe	0.53	0.60	0.44	0.50	0.63	46.5	0.57	0.62	0.63
2956 lin.ft. 18-in. vitrified sewer pipe	0.80	0.80	0.62	0.73	0.93	0.69	0.84	0.90	0.90
8781 lin.ft. 21-in. vitrified sewer pipe	1.12	1.10	0.85	1.05	1.19	98.5	1.28	1.30	1.25
12 lin.ft. 8-in. c.i. pipe	0.95	1.50	1.00	1.00	1.00	1.21	84.5	0.95	1.00
60 lin.ft. 10-in. c.i. pipe	1.40	2.00	1.40	1.25	1.38	1.65	1.10	1.25	1.31
24 lin.ft. 12-in. c.i. pipe	1.75	2.50	1.80	1.50	1.75	2.10	1.37	1.40	1.50
120 lin.ft. 18-in. c.i. pipe	3.10	3.50	3.10	2.75	3.15	3.75	2.35	2.75	2.75
264 lin.ft. 21-in. c.i. pipe	3.60	4.00	3.80	3.50	3.75	4.50	2.89	3.20	3.50
115,615 lin.ft. 6 ft. trench	0.18	0.14	0.32	0.15	0.325	0.30	0.35	0.40	0.40
27,660 lin.ft. 6 ft. to 8 ft. trench	0.23	0.20	0.35	0.22	0.455	0.37	0.38	0.48	0.50
27,060 lin.ft. 8 ft. to 10 ft. trench	0.30	0.30	0.40	0.30	0.62	0.44	0.40	0.78	0.80
3675 lin.ft. 10 ft. to 12 ft. trench	0.40	0.40	0.55	0.73	0.91	0.60	0.60	0.90	0.90
1690 lin.ft. 12 ft. to 16 ft. trench	0.60	0.80	0.65	0.92	1.39	0.80	0.80	1.20	1.25
3140 6-in. on 8-in. Y-connections	0.35	0.60	0.50	0.47	0.35	0.35	0.22	0.65	0.65
335 6-in. on 10-in. Y-connections	0.50	0.80	0.70	0.58	0.45	0.46	0.34	0.80	0.80
255 6-in. on 12-in. Y-connections	0.55	1.00	1.10	0.75	0.60	0.59	0.45	0.90	0.90
57 6-in. on 15-in. Y-connections	1.00	1.50	1.35	1.25	0.85	0.85	0.75	1.30	1.40
35 6-in. on 18-in. Y-connections	1.50	2.00	1.90	1.75	1.25	1.28	1.17	2.00	2.00
286 manholes	27.50	32.00	33.00	0.45	35.00	38.00	40.00	40.00	40.00
50 flush tanks	75.00	60.00	75.00	60.00	70.00	75.00	30.00	85.00	90.00
52 lampholes	5.00	10.00	6.00	10.00	12.00	5.00	20.00	10.00	12.00
11900 cu.yd. rock excavation	2.25	2.50	1.20	2.25	0.01	2.50	2.00	3.00	3.00
151.5 portland cement	7.00	8.00	9.00	10.00	10.00	8.00	9.00	12.00	13.00
Lumber	30.00	30.00	50.00	50.00	25.00	27.00	30.00	35.00	40.00
Sewage disposal plant complete	27,990.00	30,500.00	29,420.65	31,885.50	30,000.00	33,000.00	37,920.00	32,485.00	33,000.00
Extended totals	$159,034	162,$965	$168,409	$167,916	$183,509	$191,354	$204,983	$238,756	$240,857

Cleveland, Ohio—Preliminary plans have been prepared by Charles W. Hopkinson, Arch., 900 Rose Bldg., for the construction of a two-story gymnasium for the Western Reserve University. The estimated cost is $150,000. Charles F. Thwing is Pres. Noted Oct. 15.

Cleveland, Ohio—Preliminary plans have been prepared by W. S. Lougee, Arch., 500 Marshall Bldg., for the construction of a lodge building for the Cleveland Bricklayers Benevolent Association. Estimated cost, $50,000. W. E. Potter, 498 East 117th St., is Secy. Noted June 10.

Cleveland, Ohio—Plans have been prepared by W. R. McCormack, Arch., Board of Education Bldg., East Sixth St. and Rockland Ave. for the construction of a six-story high school and office building. The estimated cost is $1,000,000. Noted Mar. 25.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will soon be received by Ezra K. Bryan, Clk. Bd. of Education, Parkdale Ave., for the construction of a two-story grade school. The estimated cost is $75,000. Franz C. Warner, 767 Hippodrome Bldg., Cleveland, is Arch. Noted May 6 and 20.

Columbus, Ohio—Plans have been prepared by J. B. Martin, East Liverpool, for the construction of a church on West Fifth St. for the Grace United Brethren Congregation. Estimated cost, $50,000.

Dayton, Ohio—Plans have been prepared by W. H. Simms and C. H. Simms for the construction of a five-story, 85x100-ft. reinforced-concrete building to be known as the Advertising Bldg., on Jefferson St. between Second and Third St. The estimated cost is $100,000.

East Cleveland, Ohio—Plans are being prepared by W. H. Nicklas, Arch., 1900 Euclid Ave., for the construction of additions to the Chambers and Rozelle Schools at East Cleveland. Estimated cost, $50,000.

East Liverpool, Ohio—The city contemplates the construction of a two-story market house. The estimated cost is $40,000. P. V. Scheiber is Mayor and E. J. Smith is Dir. of Pub. Ser.

East Moline, Ohio—At a recent election the citizens voted in favor of the question of issuing $75,000 in bonds, the proceeds of which will be used for the construction of a high school.

Indian View, Ohio—(Plainville post office)—Tietig & Lee, Arch., 901 Fouth National Bank Bldg., Cincinnati, is preparing plans for the construction of a two- and three-story brick and stone building for the Rock Hill Sanitarium Co. Estimated cost, $60,000.

McCutchenville, Ohio—Bids will be received about July 14 by Albert Pretzinger and Edward P. Musselman, Archs., 1155 Reibold Bldg., Dayton, for the construction of a two-story school. Estimated cost, $75,000. Noted Feb. 18.

Marion, Ohio—Preliminary plans are being prepared by Marriott, Allen & Hall, Arch., 420 Hayden-Clinton Bank Bldg., Columbus, for the construction of a two-story high school. The estimated cost is $150,000. O. C. Briggs is Clk., Bd. of Education.

+Minerva, Ohio—WILLIAM BROS., Bellevue, has been awarded the general contract for the construction of a two-story, 90x120-ft. fireproof high school. The estimated cost is $60,000. Andrew Dietrich is Clk., Bd. of Education. Noted May 20.

STATE HIGHWAY, PIERCE COUNTY, WASH.

Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a section of the National Park Highway in Mashell Cañon, Pierce County, from: (A) Charles Daley & Co., Seattle; (B) Booker, Kiehl & Wipple, Seattle; (C) Henry Styles, Tacoma; (D) Rajotte, Tobert & Winters, Seattle; (E) Torger Peterson, Eatonville; (F) Standifer Clarkson Co., Portland, Ore.; (G) N. A. Degerstrom & Co., Ballard Station, Seattle; (H) S. Normile, Seattle; (I) KENDLER & EPPLER, Eatonville (awarded contract); (J) C. L. Morris Construction Co., Seattle; (K) W. P. Zindorf, Seattle; (L) Allred & James, Centralia; (M) Sloane Bros.; (N) Atlas Construction Co., Everett; (O) D. V. McDonald & Co., Seattle; (P) Nettleton, Bruce & Eschbach Co., Seattle; (Q) Charles N. & Earle Maxham, Tacoma. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	P	Q
56,100 cu.yd. excavation, including haul of 400 ft.	$0.27	$0.40	$0.40	$0.36	$0.35	$0.33	$0.45	$0.28	$0.25	$0.324	$0.32	$0.345	$0.47	$0.38	$0.40	$0.30	$0.27
50,000 cu.yd. overhaul on above material, per cach 100 ft.	0.01	0.015	0.015	0.02	0.005	0.01	0.015	0.01	0.015	0.01	0.015	0.05	0.015	0.01	0.01	0.01	0.01
10 acres clearing	100.00	100.00	90.00	200.00	150.00	135.00	100.00	50.00	100.00	100.00	127.00	150.00	100.00	75.00	100.00	115.00	140.00
4 acres grubbing	125.00	150.00	100.00	150.00	100.00	165.00	125.00	75.00	150.00	85.00	127.00	175.00	100.00	100.00	75.00	100.00	140.00
Riprap, hand placed, per cu.yd.	3.00	3.50	3.00	2.50	2.50	1.85	1.50	3.00	2.00	1.50	3.00	8.00	3.00	1.25	.....	2.50	3.50
Concrete, 1st class, per cu. yd.	14.00	14.00	11.00	11.50	10.00	9.00	12.00	16.00	15.00	7.25	15.00	25.00	17.00	7.50	.....	16.00	13.00
Concrete, 2d class, per cu.yd.	12.00	13.00	10.00	9.50	8.00	8.50	11.00	14.00	12.00	6.65	11.00	18.00	16.00	10.00	.....	14.00	12.00
Guard rail in place, including spikes and bolts per lin.ft.	0.50	0.50	0.25	1.00	0.20	0.10	0.25	0.40	0.025	0.12	0.35	0.25	0.30	0.12	.....	0.18	0.25
Timber and plank in place, including spikes and bolts, per M. ft. b.m.	18.00	25.00	25.00	30.00	20.00	18.50	24.00	20.00	25.00	25.00	25.00	25.00	30.00	15.00	.....	24.00	25.00
Logs for cribbing in place, per lin.ft.	0.25	0.40	0.25	0.10	0.10	0.14	0.25	0.35	0.25	0.50	0.00	0.25	0.30	0.12	....	0.27	0.20
6-in. porous tile drains in place, per lin.ft.	0.60	0.35	0.25	0.25	0.20	0.35	0.35	0.50	0.40	0.23	0.50	0.25	0.40	0.40	.....	0.25	0.20
8-in. porous tile drains in place, per lin.ft.	0.80	0.50	0.35	0.35	0.35	0.50	0.40	0.70	0.60	0.31	0.60	0.35	0.50	0.60	....	0.40	0.25
12-in. plain concrete pipe in place, per lin.ft.	1.50	1.00	0.80	1.50	1.00	1.50	1.00	1.00	2.50	0.74	1.00	2.50	1.10	1.00	0.50	1.00	0.60
18-in. plain concrete pipe in place, per lin.ft.	2.50	2.00	1.50	2.00	1.25	2.00	2.00	1.75	4.00	1.29	2.50	3.50	2.25	1.50	....	1.50	1 25
18-in. reinforced - concrete pipe in place, per lin.ft.	3.25	2.25	2.50	2.75	3.00	3.00	2.50	2.50	4.50	1.56	3.00	4.00	3.25	2.50	....	2.00	1 50
30-in. reinforced - concrete pipe in place, per lin.ft.	4.50	4.50	3.50	4.50	4.00	4.00	5.50	4.00	5.50	3.98	3.50	5.00	5.00	2.75	.....	4.65	2 75
36-in. reinforced - concrete pipe in place, per lin.ft.	5.50	6.00	4.75	5.25	6.00	5.00	6.00	5.00	6.00	5.76	5.00	7.00	6.00	3.00	....	6.75	3.75
42-in. reinforced - concrete pipe in place, per lin.ft.	6.50	7.50	5.00	8.50	8.00	6.00	8.50	7.00	6.50	7.95	12.00	8.50	7.00	4.00	7.00	7.85	6.60
Extended totals	$17,917	$25,525	$25,008	$24,706	$22,555	$21,758	$28,300	$17,708	$17,355	$20,784	$21,530	$25,174	$29,238	$23,458	$24,835	$19,639	$18,195

MAPLEWOOD SEWER, NO. 1—ST. LOUIS, MO.

+Bids were received June 9 for the construction of the Maplewood Sewer, No. 1, as follows: (A) COONEY CONSTRUCTION CO. (awarded contract); (B) N. B. Watters & Son; (C) Century Construction Co.; (D) Kamp-Lewald Engineering Co.; (E) John F. McMahon; (F) Strubel Helmich; (G) E. C. Davis; (H) Thomas Connor & Son; (I) Feuin-Colnon Contracting Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
270 cu.yd. class "A" Excavation in open cut	$1.75	$0.50	$5.00	$4.00	$2.50	$2.50	$2.50	$4.10	$3.00
6620 cu.yd. class "A" excavation in tunnel	6.57	5.47	7.10	8.50	8.00	7.90	10.25	11.50	12.00
1630 cu.yd. class "B" excavation in open cut	0.50	0.40	0.90	0.75	0.70	0.60	0.90	2.60	0.80
5 cu.yd. class "B" excavation in tunnel	8.00	50.00	25.00	8.50	4.00	15.00	18.00	27.60	5.00
260 cu.yd. common brick masonry in open cut	7.00	8.00	9.00	9.00	8.00	9.00	9.50	12.00	8.00
30 cu.yd. common brick masonry in tunnel	10.00	15.00	10.00	20.00	14.00	13.00	12.00	19.50	13.00
90 cu.yd. vitrified brick masonry in open cut	8.00	8.00	10.00	10.00	12.00	10.00	11.00	16.00	10.00
5 cu.yd. vitrified brick masonry in tunnel	11.00	12.00	12.00	30.00	14.00	15.00	13.50	21.00	16.00
10 cu.yd. class "A" concrete in open cut	6.50	7.50	8.00	10.50	8.00	7.50	10.00	9.00	8.00
470 cu.yd. class "A" concrete in tunnel	7.50	7.50	9.00	10.50	12.00	8.50	16.00	18.75	9.00
5 cu.yd. class "B" concrete in open cut	6.00	7.00	7.00	10.50	7.00	5.00	10.00	8.50	6.50
120 lin.ft. 12-in. vitrified clay pipe	0.25	0.30	0.25	0.50	0.30	0.75	0.40	1.60	0.35
193 lin.ft. 30-in. vitrified clay pipe	1.85	2.00	1.00	3.00	2.25	2.00	2.25	3.75	2.00
10 6-in. slants	0.25	0.40	0.30	0.50	0.60	0.50	1.00	1.75	1.00
10 12-in. slants	0.35	0.80	....	1.00	1.00	1.00	1.50	2.25	1.00
7 12-in. elbows (¼ curves)	0.35	1.00	0.60	1.00	1.00	1.50	1.50	2.50	1.00
2 12-in. "T" Junctions on 12-in. pipe	0.90	1.00	0.50	1.25	1.25	3.00	2.50	2.75	1.00
1 12-in. "T" Junctions on 15-in. pipe	1.50	1.00	0.75	1.60	1.60	3.00	3.00	3.25	1.50
1 12-in. "T" Junctions on 24-in. pipe	4.50	3.00	1.00	6.00	5.25	8.00	8.00	7.50	4.00
2 12-in. "T" Junctions on 30-in. pipe	7 00	8.00	8.00	7.00	10.00	11.00	12.00	12.10	7.00
1 12-in. "T" Junctions on 33-in. pipe	10.00	10.00	9.00	8.00	15.00	12 00	20.00	15.00	10.00
6-in. "Y" Junctions on 30-in. pipe	7.00	2.00	8.00	7.00	9.00	9.00	12.00	9.75	8.00
3430 lb. cast iron	0.02	0.02	0.03	0.04	0.03	0.04	0.05	0.09	0.03
1090 lb. wrought iron	0.035	0.04	0.04	0.05	0.05	0.04	0.10	0.08	0.05
100 sq.ft. inlet stone	0.25	0.30	0.50	0.50	0.40	0.20	0.50	1.50	0.50
200 lin.ft. extra drilling in tunnel	0.01	0.20	0.50	1.00	0.10	0.25	0.50	0.50	0.60
Extended totals	$51,938	$44,860	$58,491	$68,874	$65,010	$62,683	$82,724	$97,541	$90,237

✚**Toledo, Ohio**—The Board of Education has awarded the general contract for the construction of additions and alterations to the Chase School at Chase and Bassett St. and the Wayne School at Wayne and Ralph St. to the WALLS, BOCK & KUHLMAN CO., Toledo, at $103,000. Noted May 27.

West Alexandria, Ohio—Plans have been prepared by Edward J. Mounstephen, Arch., 802 United Brethren Bldg., Dayton, for the construction of a two-story school for Lanier Township. The estimated cost is $50,000.

Muncie, Ind.—Plans prepared by Charles Honuck, Arch., have been approved by the State Board of Charities and Corrections for the construction of an infirmary building for Delaware County. The estimated cost is $45,000. Noted June 24.

Vincennes, Ind.—John T. Oliphant will construct an eight-story office building. The estimated cost is $75,000.

✚**Detroit, Mich.**—The contract for the structural steel work of the superstructure of the main library to be constructed at Woodward, Cass, Putnam and Kirby Ave. has been awarded to the AMERICAN BRIDGE CO., 30 Church St., New York, N. Y. Estimated cost, $1,000,000. Noted May 6.

✚**Grand Rapids, Mich.**—The HAUSER-OWEN-AMES CO., Grand Rapids, at $66,030, has been awarded the contract for the construction of a four-story building for the Michigan Soldiers' Home.

✚**Hastings, Mich.**—The contract for the construction of a high school has been awarded to THOMAS R. CROCKETT, Allegan, at $67,324. Noted June 10.

Chicago, Ill.—Plans are being prepared by William L. Klewer & Son, Arch., 64 West Randolph St., for the construction of a four-story theater and office building for Albert Fuchs, 823 Sheridan Rd. The estimated cost is $350,000.

✚**Chicago, Ill.**—The general contract for the construction of a five-story, 75x99-ft. brick department store at 17 Broadway, for Albert E. Cook, has been awarded to D.A. ING & EITEL, 128 North Fifth St., Chicago. The estimated cost is $200,000.

Chicago, Ill.—Price & McLanahan, Arch., 16th and Walnut St., Philadelphia, Penn., is preparing plans for the construction of a four-story, 400x800-ft. freight station for the Pennsylvania R.R. Alex C. Shand, Philadelphia, is Ch. Engr.

Jacksonville, Ill.—Bids will be received about June 5 for the construction of a two-story addition to Northern Sanitarium. Estimated cost, $40,000. C. W. Buckingham, Morrison Blk., is Arch.

Superior, Wis.—Bids are being received by the Building Committee and E. M. Ulrich, Arch., 1900 Euclid Ave., Cleveland, Ohio, for the construction of an orphanage for the Catholic Diocese. Estimated cost, $100,000. Noted Apr. 15.

Ames, Iowa—W. D. Lewis & Co., Ames, at $78,499, submitted the lowest bid for the construction of a four-story hotel for the Ames Improvement Co.

Fontanelle, Iowa—L. D. Willis, Arch., 1119 City National Bank Bldg., Omaha, Neb., is preparing plans for the construction of a two-story, 70x94-ft. school. The estimated cost is $40,000. E. D. Barnhill is Pres., Bd. of Education.

Minneapolis, Minn.—The Gamble-Robinson Commission Co., 222 North Sixth St., will construct a six- or eight-story fruit and produce trade building. The estimated cost is $100,000.

St. Cloud, Minn.—Plans are being prepared by Tyrie, Chapman & Gage, 320 Auditorium Bldg., Minneapolis, for the construction of a high school. The estimated cost is $150,000.

St. Paul, Minn.—(Official)—Bids will be received about Sept. 15 for the construction of a building at Cedar and Central St. for the Minnesota State Historical Society. C. H. Johnston, Capitol Bank Bldg., is State Arch. Noted Apr. 29 and June 24.

BANK ST. BRIDGE, WATERBURY, CONN.

✚Bids were received June 1 by the Board of Public Works, Waterbury, for the construction of a reinforced-concrete bridge over the Naugatuck River from: (A) Barbara D'Aurio; (B) C. A. Sibley, New Haven; (C) O'Brien Construction Co., 18 East 41st St., New York; (D) McHarg-Barton Co., 171 Madison Ave., New York; (E) Fred T. Ley & Co., Inc., Springfield, Mass.; (F) Robert Daley Co., New Haven; (G) Barzaghi-Vought Co., Inc., 299 Madison Ave., New York; (H) HUDSON RIVER CO., 149 Broadway, New York (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G	H
2067 cu.yd. excavation bridge abutments and piers to elevation 110	$1.50	$1.45	$1.00	$2.00	$1.50	$0.50	$1.25	$1.10
1422 cu.yd. excavation bridge abutments and piers below elevation 110	2.00	6.00	3.00	6.00	3.00	0.50	3.00	2.50
1540 cu.yd. concrete masonry, 1-3-6	8.00	6.80	7.50	6.00	7.00	8.00	5.00	7.20
428 cu.yd. concrete masonry, 1-2½-5	12.00	9.60	8.00	7.25	7.00	10.00	6.00	8.50
908 cu.yd. concrete masonry, 1-2-4	16.00	18.50	13.75	9.75	12.00	10.00	12.00	9.20
60 cu.yd. concrete masonry, 1-2-4, 1-in. stone	20.00	24.00	13.75	8.50	15.00	25.00	12.50	9.50
Parapet walls, molding and curbing, lump sum	10,100.00	9,655.00	11,000.00	9,000.00	9,600.00	7,000.00	9,025.00	9,055.65
70 cu.yds. pier ends and coping	59.00	60.00	72.00	60.00	65.00	3,950.00	60.00	61.50
113 tons 1-in. steel reinforcement	100.00	80.00	100.00	50.00	56.00	80.00	45.00	50.00
20.5 tons ¾-in. steel reinforcement	100.00	90.00	100.00	50.00	56.00	75.00	48.00	50.00
8 tons ½-in. steel reinforcement	100.00	100.00	100.00	60.00	60.00	80.00	50.00	50.00
890 sq.yd. wire mesh reinforcement	0.45	0.75	0.50	0.50	0.50	0.35	0.40	0.40
3.0 sq.yd. brick sidewalk	3.50	2.50	2.50	3.00	1.85	1.00	1.50	2.05
Iron conduit and boxes, (lump sum)	300.00	175.00	200.00	125.00	125.00	100.00	500.00	125.00
40M ft. b.m. wood sheet piling	50.00	60.00	60.00	67.00	60.00	55.00	70.00	50.00
12M ft. b.m. timber grillages	50.00	48.00	50.00	38.00	60.00	50.00	50.00	45.00
670 lin.ft. 6-in. drain tile	1.00	0.75	0.50	0.25	0.40	0.20	0.25	0.20
Construction and removal of temporary bridge, (lump sum)	6500.00	3650.00	3000.00	5000.00	3650.00	6600.00	3500.00	3105.00
6000 lin.ft. timber piling, 12 to 20 ft. long	0.50	0.40	0.75	0.25	0.30	0.20	0.25	0.25
6000 lin.ft. timber piling, 20 to 30 ft. long	0.50	0.40	0.75	0.25	0.30	0.20	0.25	0.25
980 cu.ft. excavation, retaining wall	2.00	1.50	1.00	2.50	2.30	0.50	1.50	0.35
475 cu.yd. rubble masonry	7.00	6.00	5.50	4.00	3.60	5.00	4.00	2.35
Extended totals	$91,574	$87,159	$84,559	$71,598	$70,455	$66,091	$62,870	$61,337

PARK AVE. BRIDGE—CINCINNATI, OHIO

Bids were received June 1 by the Board of Public Service, Cincinnati, for the construction of a reinforced-concrete arch over Kemper Lane at the Park Ave. entrance to Eden Park, from: (A) D. P. Foley; (B) A. J. Yawger, Indianapolis, Ind.; (C) Ohio Valley Contracting Co.; (D) Roos Bros.; (E) Cleary-White Construction Co. and **A. J. Brehm**; **(F) N. R. Porterfield, Youngstown**; (G) F. W. Folz & Co.; (H) William F. Nickoson; (I) Ferro-Concrete Construction Co.; (J) Runck Bros.; (K) James Duff Construction Co., Cleveland; (L) L. Eid Concrete Steel Co.; (M) Kirchner Construction Co.; (N) Thomas P. Strack; (O) Engineer's Estimate. All bidders of Cincinnati unless otherwise stated. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
7000 cu.yd. trench excavation, earth	$0.75	$0.75	$1.25	$1.50	$0.75	$1.25	$1.00	$2.00	$1.00	$2.00	$1.00	$1.35	$1.50	$1.00	$1.00
2000 cu.yd. trench excavation, rock	1.00	2.00	2.50	2.25	3.00	1.75	1.50	3.00	2.50	3.00	2.50	2.00	3.00	2.50	2.50
3600 cu.yd. reinforced-concrete footings and abutments	9.10	9.25	8.00	9.00	9.00	11.10	8.60	12.00	9.84	10.00	10.45	9.40	10.00	12.00	9.00
650 cu.yd. reinforced-concrete retaining walls	12.00	14.20	14.60	17.00	15.00	14.00	14.50	15.00	13.00	16.00	16.00	17.10	18.20	18.00	15.00
100 cu.yd. reinforced-concrete stairs	20.00	20.00	18.00	25.00	23.00	25.00	27.50	25.00	25.50	25.00	25.00	31.40	27.00	30.00	25.00
Reinforced-concrete superstructure (lump sum)	46,000	49,200	50,000	48,000	59,250	51,000	62,600	43,730	57,850	70,800	72,364	68,430	72,500	80,000	60,950
26,000 cu.yd. grading excavation	0.35	0.45	0.60	0.50	0.50	0.50	0.50	0.47	0.60	0.01	0.40	0.65	0.60	1.00	0.60
80 lin.ft., 18-in. drain	1.45	2.00	2.50	2.50	2.50	2.50	3.60	2.00	2.50	2.00	2.50	2.00	2.00	2.50	2.50
500 lin.ft., 12-in. drain	0.85	1.25	1.50	1.50	1.25	1.50	1.50	1.50	1.50	1.00	1.50	1.00	1.75	1.50	1.50
175 lin.ft. 6-in. drain	0.85	0.75	1.75	1.00	1.00	1.00	1.00	1.00	1.00	0.50	1.00	0.75	1.25	1.00	1.00
3 manholes	70.00	100.00	150.00	150.00	100.00	150.00	125.00	60.00	150.00	100.00	150.00	150.00	80.00	150.00	150.00
7 inlets, No. 1	40.00	50.00	125.00	75.00	50.00	75.00	50.00	40.00	75.00	60.00	75.00	75.00	50.00	75.00	75.00
4 inlets, No. 3	60.00	75.00	90.00	100.00	60.00	100.00	75.00	50.00	100.00	75.00	100.00	100.00	80.00	100.00	100.00
1600 lin.ft. granite curb	1.00	1.00	1.10	1.10	1.00	1.15	1.10	1.10	1.10	1.00	1.00	1.10	1.00	1.10	1.10
1300 lin.ft. concrete curb	0.40	0.75	0.80	0.70	0.65	0.60	0.70	0.60	0.75	0.50	0.80	0.75	0.70	0.80	0.80
150 cu.yd. concrete base for paving	3.50	5.45	6.00	5.50	5.50	5.00	5.25	5.50	5.50	5.00	6.00	6.75	5.00	6.00	6.00
300 sq.yd. concrete paving	1.00	1.25	1.50	1.50	1.50	1.25	1.50	1.25	1.50	1.50	1.50	1.50	2.50	1.50	1.50
800 sq.yd. asphaltic concrete paving	1.00	1.50	1.20	1.50	1.50	1.40	1.50	1.35	1.50	1.50	1.50	1.50	1.50	1.50	1.50
9000 sq.yd. bituminous macadam paving	1.30	1.20	1.20	1.15	1.11	1.15	1.15	1.20	1.40	1.30	1.15	1.30	1.40	1.30	1.30
1000 sq.yd. bituminous stone walks	1.15	1.20	1.30	1.15	1.16	1.10	1.05	0.50	1.40	1.30	1.30	1.30	1.15	1.30	1.30
10,000 sq.ft. cement walks	0.13½	0.12½	0.15	0.14	0.12	0.12½	0.13	0.12	0.15	0.12	0.15	0.14	0.15	0.15	0.15
480 lin.ft. 2-bar pipe railing	1.00	1.00	1.10	1.00	0.75	1.00	1.00	1.00	1.05	1.00	1.25	1.00	1.25	1.25	1.25
3000 sq.yd. sodding	0.20	0.35	0.40	0.30	0.25	0.35	0.35	0.23	0.40	0.20	0.40	0.30	0.35	0.35	0.40
Extended totals	$125,354	$136,294	$142,429	$143,875	$148,220	$149,405	$150,310	$151,635	$156,788	$160,937	$167,924	$170,219	$179,404	$200,050	$158,000

Caldwell, Kan.—Plans are being prepared by S. S. Voight, Arch., 517 Barnes Bldg., Wichita, for the construction of a two-story school. The estimated cost is $50,000.

Hiawatha, Kan.—Plans are being prepared by J. H. Felt & Co., Arch., 800 Grand Ave., Kansas City, Mo., for the construction of a two-story high school. The estimated cost is $75,000. W. F. Shale is Secy., Bd. of Education.

✚Wichita, Kan.—The general contract for the construction of a six-story bank and office building for the Fourth National Bank has been awarded to the SWENSON CONSTRUCTION CO., Kansas City, Mo., at $113,609.

Weeping Water, Neb.—Smithley & Campbell, Arch., 506 West Broadway, Council Bluffs, Iowa, is preparing plans for the construction of a two-story school. The estimated cost is $40,000.

Kansas City, Mo.—Bids are being received for the construction of a seven-story fireproof office building at 912 Walnut St. to be known as the Ridge Arcade. The estimated cost is $50,000. Smith, Rea & Lovitt, 602 Finance Bldg., is Arch.

Kansas City, Mo.—St. Joseph's Hospital will construct a six-story reinforced-concrete and brick hospital at 31st St. and Linwood Blvd. The estimated cost is $500,000. Wilder & Wight, First National Bank Bldg., is Arch.

Kansas City, Mo.—New bids are being received by the Board of Public Works for the construction of a two-story reinforced-concrete and brick police station at 19th St. and Baltimore Ave. The estimated cost is $75,000. Madorie & Birdsall, 832 Reserve Bank Bldg., is Arch.

Kansas City, Mo.—Bids are being received for the construction of a church at East 24th St. for St. Michaels Congregation. The estimated cost is $50,000. W. E. Brown, 1112 Tracy Ave., is Arch.

Kansas City, Mo.—Frederick H. Michaelis, Arch., is preparing plans for the construction of an 80x125-ft. reinforced concrete hotel on Central St. between 14th and 15th St. for Ernest Neuer and Edward Neuer. The estimated cost is $75,000.

St. Louis, Mo.—A. J. Francis will construct a 59-suite studio-apartment building at Waterman and De Baliviere Ave. The estimated cost is $100,000.

St. Louis, Mo.—E. Mason Roberts plans to construct two commercial and store buildings at 3872 Washington Blvd. The estimated cost is $100,000.

✚St. Louis, Mo.—The general contract for the construction of a six-story office building at Broadway and Locust St. for the Ranier Realty Co. has been awarded to JAMES STEWART & CO. INC., 343 South Dearborn St., Chicago, Ill. The estimated cost is $400,000. Noted Nov. 26.

Little Rock, Ark.—The Crawford-Williamson Construction Co., Memphis, Tenn., at $56,000, was the lowest bidder for the construction of a two-story school to be known as the U. M. Rose School. J. H. Bilheimer is Secy. of School Bd.

Austin, Tex.—The congregation of the Ebenezer Baptist Church will construct a building at 10th and San Marcos St. The estimated cost is $50,000. L. L. Campbell is Pastor.

Beaumont, Tex.—Plans are being prepared for the construction of a two-story brick school at South Park. The estimated cost is $50,000.

✚Dallas, Tex.—The general contract for the construction of a high school has been awarded to E. C. GERHARD & CO. The estimated cost is $300,000. Noted Mar. 18 and June 10.

Galveston, Tex.—Plans are being prepared by C. D. Hill & Co., Arch., for the construction of a five-story hotel for S. Skitcovitch. The estimated cost is $70,000.

(Continued on page 25)

SEWAGE SYSTEM AND SEWAGE-TREATMENT WORKS—HUNTINGTON, N. Y.

✚Bids were received May 14 by the Sewer Commissioners for the construction of a sewer system and sewage-treatment works from (A) Engineer's Estimate; (B) FRANK NORDONE, Mt. Vernon (awarded contract); (C) Fred E. Gross & Son, Yonkers; (D) Lincoln-Steele Fleming Co., New York; (E) Peter D'Amato, Newark, N. J.; (F) Murphy Bros., Brooklyn; (G) Peace Bros., Flushing; (H) Henry W. Golden & Son, Inc., Troy; (I) John C. Schrade, Inc., Brooklyn; (J) Daly & Merritt, Port Chester; (K) Frank Puglia, Paterson, N. J.; (L) North Eastern Construction Co., New York; (M) Joseph Jennings, Brooklyn; (N) Frank Merandino, Inc., Brooklyn. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Vitrified Pipe Sewer														
4400 lin.ft. 8-in., 0 to 6 ft. deep	$0.46	$0.40	$0.46	$0.39	$0.35	$0.45	$0.46	$0.40	$0.45	$0.41	$0.70	$0.37	$0.82	$0.60
48,375 lin.ft. 8-in., 6 to 8 ft. deep	0.46	0.42	0.52	0.49	0.48	0.55	0.55	0.48	0.52	0.55	0.90	0.58	0.82	0.80
5555 lin.ft. 8-in., 8 to 10 ft. deep	0.65	0.65	0.73	0.65	0.65	0.75	0.71	0.80	0.65	0.71	1.00	1.38	0.95	0.85
2845 lin.ft. 8-in., 10 to 12 ft. deep	0.85	0.80	0.93	0.80	0.80	0.90	0.84	1.10	0.94	0.77	1.25	1.77	1.24	1.01
1040 lin.ft. 8-in., 12 to 14 ft. deep	1.05	0.95	1.22	1.07	1.05	1.15	1.01	1.35	1.07	0.85	1.90	2.22	1.39	1.35
245 lin.ft. 8-in., 14 to 16 ft. deep	1.30	1.10	2.00	1.34	1.50	1.70	1.40	1.75	1.65	0.90	2.25	2.50	1.60	1.51
50 lin.ft. 8-in., 16 to 18 ft. deep	1.60	1.50	2.60	1.60	2.25	2.50	2.00	2.40	2.40	1.25	3.00	3.37	1.80	1.81
310 lin.ft. 10-in., 6 ft. deep	0.53	0.50	0.50	0.46	0.40	0.55	0.55	0.45	0.52	0.63	0.85	0.44	0.89	0.60
7885 lin.ft. 10-in., 6 to 8 ft. deep	0.53	0.60	0.60	0.61	0.55	0.65	0.64	0.55	0.60	0.75	1.00	0.65	0.89	0.76
855 lin.ft. 10-in., 8 to 10 ft. deep	0.75	0.75	0.78	0.72	0.70	0.80	0.82	0.95	0.73	0.79	1.35	1.42	1.03	0.80
50 lin.ft. 10-in., 10 to 12 ft. deep	0.95	0.95	1.00	0.87	1.10	1.40	1.00	1.35	1.03	0.99	1.65	1.86	1.38	1.11
680 lin.ft. 12-in., 6 ft. deep	0.64	0.65	0.57	0.62	1.00	0.90	0.73	0.55	0.60	0.95	1.20	0.52	0.94	0.71
1205 lin.ft. 12-in., 6 to 8 ft. deep	0.64	0.73	0.67	0.72	1.50	1.25	0.85	0.65	0.70	1.00	1.30	0.72	0.94	0.90
120 lin.ft. 12-in., 8 to 10 ft. deep	0.85	0.85	0.85	0.78	2.00	1.50	1.00	1.30	0.87	1.10	1.60	1.52	1.08	1.01
35 lin.ft. 12-in., 10 to 12 ft. deep	1.05	1.00	1.20	0.94	3.00	2.10	1.25	1.60	1.10	1.45	1.75	1.93	1.43	1.16
75 lin.ft. 12-in., 12 to 14 ft. deep	1.35	1.09	1.60	1.20	3.25	2.25	1.40	2.00	1.25	1.50	2.00	2.16	1.51	1.41
80 lin.ft. 12-in., 14 to 16 ft. deep	1.70	1.29	2.15	1.48	3.40	2.80	1.65	2.50	1.85	1.60	2.50	2.30	1.73	1.80
50 lin.ft. 12-in., 16 to 18 ft. deep	2.00	1.50	2.70	1.74	3.65	3.00	2.00	3.00	2.50	1.90	3.00	2.45	1.72	2.00
225 lin.ft. 15-in., 0 to 6 ft. deep	1.00	0.75	0.75	1.05	1.25	2.00	0.91	1.40	1.50	1.45	1.40	0.76	1.12	0.91
730 lin.ft. 15-in., 6 to 8 ft. deep	1.10	0.94	0.90	1.15	1.60	2.50	1.10	1.94	1.75	1.53	1.80	1.92	1.25	1.21
610 lin.ft. 15-in., 8 to 10 ft. deep	1.25	1.05	1.15	1.31	2.00	2.75	1.30	2.55	2.50	1.70	2.30	1.93	1.41	1.36
50 lin.ft. 15-in., 10 to 12 ft. deep	1.50	1.15	1.75	1.46	2.50	4.50	2.00	3.60	3.00	1.90	3.00	2.14	1.71	1.56
20,000 lin.ft. 8-in., with bituminous joints	0.03	0.05	0.04	0.02	0.05	0.05	0.06	0.04	0.04	0.05	0.07	0.30	0.06	0.07
4000 lin.ft. 10-in., with bituminous joints	0.05	0.06	0.05	0.04	0.07	0.06	0.07	0.05	0.05	0.07	0.09	0.32	0.05	0.10
2000 lin.ft. 12-in., with bituminous joints	0.08	0.07	0.07	0.05	0.15	0.08	0.08	0.07	0.06	0.09	0.11	0.35	0.05	0.12
500 lin.ft. 15-in., with bituminous joints	0.15	0.08	0.10	0.06	0.20	0.10	0.13	0.08	0.08	0.11	0.14	0.40	0.08	0.15
2000 lin.ft. laying and trenching 14-in. c.i. pipe, 6 ft. deep	0.75	0.50	0.50	0.48	0.75	0.60	0.75	0.60	1.23	2.85	1.25	2.20	2.48	1.40
2500 5-in. Y-branches on 8-in. pipe	0.50	0.35	0.30	0.35	0.40	0.30	0.40	0.35	0.30	1.00	0.40	0.53	0.60	0.32
365 5-in. Y-branches on 10-in. pipe	0.69	0.45	0.40	0.48	0.60	0.35	0.55	0.50	0.40	1.10	0.75	0.77	0.85	0.45
90 5-in. Y-branches on 12-in. pipe	0.85	0.55	0.50	0.58	0.75	0.35	0.83	0.60	0.45	1.50	2.00	0.96	1.06	0.55
60 5-in. Y-branches on 15-in. pipe	1.00	0.65	0.65	0.88	1.00	0.40	1.10	1.00	0.98	1.75	2.20	1.68	1.60	0.90
2000 5-in. ⅛ bends	0.23	0.25	0.25	0.30	0.40	0.25	0.30	0.15	0.25	0.50	0.30	0.29	0.31	0.30
400 5-in. double Y branches, including caps	0.50	0.50	0.25	0.54	0.50	0.60	0.55	0.40	0.50	1.00	0.95	0.48	0.40	0.50
1500 lin.ft. 5-in. vitrified pipe risers	0.50	0.45	0.30	0.46	0.35	0.30	0.40	0.75	0.90	0.30	0.75	0.91	0.85	0.60
55 flushtanks and appurtenances	70.00	65.00	65.00	72.00	70.00	65.00	80.00	70.00	80.00	60.00	65.00	102.00	196.50	120.00
240 manholes and appurtenances	40.00	37.00	38.00	39.00	36.00	35.00	40.00	40.00	40.00	45.00	40.00	86.00	50.00	60.00
90 tons c.i. pipe	25.00	24.00	30.00	30.00	38.00	25.00	30.00	27.00	23.00	30.00	30.00	31.50	10.00	40.00
1 ton c.i. specials	60.00	59.00	60.00	75.00	60.00	60.00	75.00	60.00	60.00	75.00	75.00	87.50	10.00	80.00
10 cu.yd. rock excavation	3.00	3.00	5.00	3.00	4.00	3.00	5.00	3.00	4.75	4.00	3.00	4.80	1.00	5.00
100 cu.yd. extra earth excavation	0.60	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	0.75	2.00	0.90	0.65	1.00
200 cu.yd. extra earth filling	0.50	0.75	0.50	0.50	0.40	0.75	1.00	1.00	0.30	0.75	0.50	0.42	0.65	1.00
20 cu.yd. extra broken stone or gravel filling	2.00	1.85	2.00	3.00	2.00	2.00	2.00	1.50	1.00	2.75	3.00	1.20	2.00	2.50
20 cu.yd. concrete for sewerage system	10.00	6.00	8.00	7.00	7.00	10.00	7.00	6.50	12.00	9.00	7.00	8.00	7.00	8.00
1000 ft. b.m. lumber for foundations	32.00	35.00	50.00	60.00	40.00	35.00	40.00	30.00	45.00	35.00	65.00	75.00	35.00	40.00
500 lin.ft. piles	0.50	0.60	0.50	0.75	0.50	0.50	0.40	0.30	0.50	0.50	0.80	1.00	0.35	0.70
10,000 ft. b.m. sheathing left in place	32.00	31.00	35.00	35.00	38.00	28.00	35.00	30.00	30.00	35.00	45.00	36.00	27.00	35.00
250 sq.yd. relaying of cement walks	1.35	1.80	1.80	1.80	1.35	1.35	1.50	1.00	1.50	1.50	1.50	1.75	1.35	1.80
20 sq.yd. relaying of wood block pavement with concrete base	3.50	1.90	2.00	3.00	2.00	3.50	2.00	3.00	5.00	3.50	3.00	3.42	3.50	5.00
900 sq.yd. relaying flag stone walk	0.20	0.15	0.50	0.60	0.27	0.35	0.50	0.25	1.00	0.50	0.10	0.90	0.75	1.50
4000 sq.yd. relaying bituminous macadam pavement	0.60	1.60	0.30	0.70	0.45	1.20	0.75	1.60	0.75	1.00	0.75	1.08	0.40	2.00
2000 lin.ft. 1-in. galvanized iron pipe line	0.25	0.18	0.25	0.15	0.25	0.25	0.35	0.20	0.29	0.20	0.40	0.49	0.50	0.16
Settling tank and appurtenances (lump sum)	5100.00	5044.00	6000.00	7327.00	8500.00	5700.00	8076.00	6794.27	8090.00	9000.00	5510.00	4570.00	8500.00	29,500
Storage tank and appurtenances (lump sum)	2500.00	2480.00	1635.00	3475.00	5500.00	1200.00	3000.00	3689.05	6000.00	6800.00	2331.00	2380.00	3500.00	7500.00
Building, sterilizing devices and appurtenances (lump sum)	2200.00	2720.00	2000.00	2498.00	2500.00	2700.00	2900.00	3040.35	5000.00	3000.00	2310.00	2270.00	5000.00	9000.00
Sludge drying bed and appurtenances (lump sum)	300.00	1500.00	1500.00	254.00	360.00	800.00	250.00	975.55	2000.00	2300.00	246.00	82.00	8000.00	4000.00
Extended totals	$76,339	$77,948	$79,302	$81,523	$86,530	$86,758	$88,994	$89,078	$94,788	$104,101	$114,466	$119,783	$130,271	$155,675

WATER-WORKS IMPROVEMENT—SOUTH PHILADELPHIA, PENN.

Bids were received May 25 by the Bureau of Water, Department of Public Works, Philadelphia, for Contract No. 260, furnishing and laying cast-iron water pipe in South Philadelphia, from: (A) Beaver Engineering & Contracting Co., 51 Chambers St., New York; (B) Cunningham Paving & Contracting Co., 1345 Arch St.; (C) M. & J. B. McHugh, 714 Commercial Trust Bldg.; (D) Snare & Triest Co., Pier 40, South Wharves; (E) Keystone State Construction Co., 704 Pennsylvania Bldg.; (F) Edwin H. Vare, 712 Lincoln Bldg.; (G) Peoples Bros., Inc., 237 Commercial Trust Bldg.; (H) Charles P. Bower, Wayne & Roberts Ave.; (I) Degnon Contracting Co., 30 East 42nd St., New York; (J) American Paving & Construction Co., 211 South Ninth St. All bidders of Philadelphia unless otherwise noted. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
55,000 cu.yd. earth excavation not more than 10 ft. deep	$0.99	$1.50	$1.60	$1.10	$1.05	$0.85	$0.95	$1.17	$1.25	$1.65
1000 cu.yd. earth excavation more than 10 ft. deep	1.54	1.80	1.60	1.50	1.60	1.95	0.95	2.00	1.25	1.97
1500 cu.yd. rock excavation not more than 10 ft. deep	2.20	1.50	2.50	2.20	2.50	1.33	1.50	2.50	1.25	2.50
500 cu.yd. rock excavation more than 10 ft. deep	2.20	3.00	4.00	3.00	4.00	1.95	1.50	3.50	1.25	2.50
7200 tons 48x36x30-in. c.i. hub and spigot pipe	30.80	32.00	29.68	28.00	29.60	28.00	28.40	28.75	34.00	37.22
1700 tons 24-in. and smaller c.i. hub and spigot pipe	33.40	36.00	29.97	29.00	31.50	28.00	28.40	30.86	34.00	38.60
200 tons 48x36x30-in. c.i. specials	70.00	78.00	83.00	70.00	80.00	82.40	118.00	79.50	80.00	62.75
50 tons 24-in. and smaller c.i. specials	79.20	87.00	97.00	72.00	77.00	88.00	118.50	84.35	80.00	62.75
8 26-in. stop valves	486.75	525.00	550.00	540.00	470.00	498.00	415.00	460.00	720.00	430.00
2 30-in. stop valves	366.85	380.00	341.00	340.00	360.00	350.00	305.00	300.00	500.00	325.00
5 24-in. stop valves	209.00	225.00	210.00	200.00	230.00	210.00	190.00	179.00	275.00	200.00
10 20-in. stop valves	109.85	135.00	150.00	130.00	150.00	122.00	132.00	135.00	220.00	120.00
20 16-in. stop valves	74.65	87.00	100.00	75.00	110.00	81.00	75.00	74.00	90.00	90.00
15 12-in. stop valves	36.90	45.00	48.00	40.00	60.00	39.00	47.00	37.75	54.00	48.00
10 10-in. stop valves	27.95	33.00	33.00	30.00	50.00	29.50	37.00	29.25	32.00	30.50
15 8-in. stop valves	21.45	24.00	22.00	25.00	45.00	22.00	29.00	20.00	20.00	40.00
25 6-in. stop valves	14.00	17.00	13.50	16.00	40.00	15.50	21.00	14.12	15.00	35.00
15 2½-in. air valves	11.00	10.00	10.00	12.00	14.00	15.65	10.00	10.50	15.00	20.00
35,000 lb. gray iron castings	0.02	0.05	0.04	0.03	0.05	0.03½	0.05	0.02½	0.03½	0.04
10,000 lb. w.i. and steel fixtures	0.05	0.05	0.10	0.05	0.10	0.10	0.08	0.06	0.06	0.06
5000 lb. structural steel	0.04½	0.05	0.04	0.03	0.05	0.04	0.05	0.05	0.05	0.05
1500 cu.yd. concrete masonry	6.00	7.25	8.00	7.50	7.00	6.50	5.50	6.00	0.01	6.00
2000 cu.yd. brick masonry	11.00	12.00	16.00	10.60	12.00	11.50	12.00	12.00	0.01	15.00
27,000 sq.yd. granite block paving	0.60	0.40	0.36	0.30	0.40	0.40	0.60	0.35	0.01	0.60
6000 sq.yd. asphalt paving	2.20	1.25	1.40	1.10	1.50	1.40	1.50	1.40	0.01	1.25
2000 sq.yd. vitrified brick paving	2.20	0.60	0.70	1.50	1.90	0.75	1.50	1.30	0.01	1.25
1200 sq.yd. wood block paving	3.85	4.00	3.00	3.30	1.90	1.60	3.50	2.25	0.01	3.65
1000 lin.ft. resetting curb	0.05	0.20	0.40	0.20	0.25	0.20	0.25	0.12	0.09	0.20
1000 sq.ft. resetting flag stones	0.05	0.05	0.20	0.10	0.10	0.06¼	0.12	0.08	0.05	0.10
100 sq.yd. granolithic sidewalk paving	1.50	1.25	1.75	1.50	1.50	1.60	1.80	1.10	1.25	1.50
100 sq.yd. brick sidewalk paving	1.50	1.00	0.75	0.60	1.00	0.65	0.60	1.00	1.25	1.00
10,000 lin.ft. terra cotta pipe sewer, 15-in. and under	0.55	0.60	1.10	0.45	1.00	0.96	1.00	0.50	0.10	0.90
3 M ft. b.m. timber	0.03½	0.10	60.00	0.06	0.03	0.04	50.00	0.05	0.06	0.05
2000 lb. lead pipe	0.33	0.12	0.25	0.15	0.40	0.17	0.60	0.10	0.20	0.20
Extended totals	$443,916	$478,955	$654,594	$406,855	$438,645	$399,964	$577,250	$424,381	$413,127	$450,531

SANITARY SEWER SYSTEM—SILOAM SPRINGS, ARK.

Bids were received May 12 by R. J. Alfrey, Secy., Bd. of Imp., Sewer District No. 1, for the construction of a sanitary sewer system from: (A) Matthews & Forester, Kansas City, Mo.; (B) Morene, Brooks & Burkham, St. Louis, Mo.; (C) W. F. Riley Construction Co., St. Louis, Mo.; (D) John F. McMahon, St. Louis, Mo.; (E) E. J. Heckle, Kansas City, Mo.; (F) D. E. Nipp, Floro, Ill.; (G) McEachin & McEachin, McAlester, Okla.; (H) Hiram Lloyd Building & Construction Co., St. Louis, Mo.; (I) Sutherlin Construction Co., Kansas City, Mo.; (J) W. S. McDowell, Fordyce; (K) John W. Rooks, McAlester, Okla.; (L) Burke Construction Co., Ft. Smith; (M) V. E. Koch, Joplin, Mo.; (N) EVERETT & BURT, Hutchinson, Kan. (awarded contract); (O) Pouncey Paving & Construction Co., Memphis, Tenn.; (P) Edgar Main, Liberty, Mo.; (Q) John Spandri, Springfield, Mo.; (R) Bash & Janes, Joplin, Mo. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
3000 lin.ft 15 in. vitrified sewer pipe	$0.58	$0.40	$0.50	$0.50	$0.56	$0.50	$0.50	$0.45	$0.55
4100 lin.ft. 12 in. vitrified sewer pipe	0.39	0.30	0.35	0.35	0.40	0.39	0.34	0.34	0.36
5500 lin.ft. 10 in. vitrified sewer pipe	0.28	0.25	0.30	0.30	0.30	0.28	0.23	0.26	2.35
26900 lin.ft. 8 in. vitrified sewer pipe	0.22	0.16	0.22	0.20	0.23	0.21	0.18	0.18	0.19
16800 lin.ft. 6 in. vitrified sewer pipe	0.15	0.10	0.18	0.15	0.18	0.14	0.13	0.12	0.15
900 6 in. on 8 in. Y's	0.48	0.30	0.40	0.40	0.85	0.90	0.30	0.34	0.69
500 6 in. on 6 in. Y's	0.36	0.20	0.30	0.30	0.69	0.65	0.20	0.24	0.45
264 lin.ft. 10 in. c.i. pipe	1.02	1.00	1.50	2.00	1.00	0.95	1.00	1.30	0.85
72 lin.ft. 8 in. c.i. pipe	0.78	p.80	1.25	1.50	0.80	0.80	0.90	1.00	0.80
96 lin.ft. 6 in. c.i. pipe	0.54	0.60	1.00	0.90	0.60	0.55	0.75	0.75	0.70
12800 lin.ft. 0 to 4 ft. trench	0.18	0.23	0.18	0.15	0.08	0.12	0.13	0.13	0.11
29100 lin.ft. 4 to 6 ft. trench	0.30	0.37	0.22	0.25	0.15	0.16	0.20	0.20	0.14
7500 lin.ft. 6 to 8 ft. trench	0.42	0.52	0.30	0.35	0.20	0.30	0.31	0.29	0.21
1800 lin.ft. 8 to 10 ft. trench	0.60	0.67	0.45	0.50	0.26	0.35	0.40	0.34	0.28
200 lin.ft. 10 to 12 ft. trench	0.72	1.22	0.60	0.80	0.40	0.40	0.49	0.54	0.45
200 lin.ft. 12 to 14 ft. trench	0.90	1.50	0.80	0.90	0.60	0.55	0.75	0.64	0.75
100 lin.ft. 14 to 16 ft. trench	1.20	2.22	1.00	1.00	0.75	0.80	1.00	0.74	0.95
136 building standard manholes	28.50	35.00	30.00	30.00	28.00	24.00	25.00	27.00	28.30
120 lin.ft. building add. depth of manhole	4.80	5.00	3.00	3.00	2.50	3.00	3.00	3.50	4.00
12 building flush tanks	57.60	75.00	60.00	70.00	50.00	85.00	57.50	65.00	62.50
40 building lampholes	5.40	2.00	7.00	10.00	8.00	9.00	8.00	7.00	7.00
25 cu.yd. extra concrete	9.60	8.00	8.00	9.00	9.00	6.00	8.00	7.00	8.00
3000 cu.yd. excavating rock in trench	2.40	3.00	4.00	3.50	2.80	3.00	2.40	2.50	2.70
1 building disposal plant complete (lump sum)	9000.00	10,000.00	9000.00	8000.00	9200.00	7209.00	9350.00	12,500.00	9150.00
1 M ft. sheeting left in trench	18.00	30.00	25.00	22.00	12.00	18.00	30.00	30.00	39.00
100 cu.yd. placing earth in embankment	0.42	0.50	0.40	0.25	0.75	0.50	0.30	0.50	0.45
Extended total	$53,793.00	$58,941.00	$55,695.00	$53,429.00	$48,682.00	$46,909.00	$46,212.00	$50,033.00	$46,010.00

	J	K	L	M	N	O	P	Q	R
3000 lin.ft. 15 in. vitrified sewer pipe	$0.58	$0.42	$0.55	$0.45	$0.50	$0.50	$0.48	$0.50	$0.47
4100 lin.ft. 12 in. vitrified sewer pipe	0.39	0.29	0.41	0.29	0.32	0.35	0.35	0.40	0.34
5500 lin.ft. 10. in. vitrified sewer pipe	0.29	0.20	0.25½	0.19	0.24	0.28	0.25	0.36	0.26
26900 lin.ft. 8 in. vitrified sewer pipe	0.22	0.16	0.22	0.16	0.18	0.16	0.20	0.18	0.20
16800 lin.ft. 6 in. vitrified sewer pipe	0.17	0.11	0.19	0.11	0.12	0.12	0.12	0.12	0.13
900 6 in. on 8 in. Y's	0.65	0.59	0.75	0.60	0.40	0.30	0.50	0.70	0.55
500 6 in. on 6 in. Y's	0.46	0.35	0.45	0.50	0.30	0.25	0.25	0.46	0.35
264 lin.ft. 10 in. c.i. pipe	0.25	0.94	1.50	1.00	1.25	2.00	1.25	1.30	1.20
72 lin.ft. 8 in. c.i. pipe	1.00	0.68	1.00	1.00	1.00	1.50	1.00	1.00	0.90
96 lin.ft. 6 in. c.i. pipe	0.65	0.55	1.00	1.00	0.75	0.90	0.75	0.75	0.60
12800 lin.ft. 0 to 4 ft. trench	0.14	0.18	0.19	0.18	0.10	0.16	0.14	0.25	0.13
29100 lin.ft. 4 to 6 ft. trench	0.17	0.24	0.27	0.25	0.15	0.17	0.20	0.35	0.17
7500 lin.ft. 6 to 8 ft. trench	0.20	0.31	0.45	0.42	0.20	0.25	0.28	0.50	0.20
1800 lin.ft. 8 to 10 ft. trench	0.30	0.52	0.84	0.60	0.35	0.40	0.45	0.60	0.30
200 lin.ft. 10 to 12 ft. trench	0.40	0.80	1.50	1.00	0.50	0.60	0.64	0.75	0.65
200 lin.ft. 12 to 14 ft. trench	0.65	0.98	2.00	1.10	0.75	0.80	0.82	0.90	0.87
100 lin.ft. 14 to 16 ft. trench	1.00	1.45	3.00	1.25	1.00	1.00	0.98	0.95	1.06
136 building standard manholes	24.00	24.00	27.50	23.00	22.00	26.50	25.00	19.00	30.06
120 lin.ft. building add. depth of manhole	3.00	2.50	4.00	2.00	2.50	3.00	2.00	3.50	3.00
12 building flush tanks	55.00	65.00	60.00	51.00	60.00	50.00	55.00	50.00	65.00
40 building lampholes	6.50	7.00	7.50	7.00	10.00	5.00	6.00	6.00	7.00
25 cu.yd. extra concrete	9.00	10.00	10.00	17.00	10.00	12.00	8.00	6.00	7.00
3000 cu.yd. excavating rock in trench	2.50	3.00	2.70	2.75	3.00	3.00	2.90	4.00	2.25
1 building disposal plant complete (lump sum)	8650.00	9661.31	9334.00	6700.00	8000.00	7650.00	7985.00	9140.00	9200.00
1 M ft. sheeting left in trench	20.00	22.00	25.00	25.00	20.00	20.00	15.00	20.00	12.00
100 cu.yd. placing earth in embankment	0.50	0.25	0.50	1.00	0.30	0.30	0.40	0.75	0.40
Extended total	$47,365.00	$49,339.00	$56,632.00	$47,522.00	$43,711.00	$45,496.00	$46,687.00	$60,484.00	$45,490.00

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.
Station Finish, Fourth Ave. Subway

Bids were received May 28 by the Public Service Commission for the station finish of the Fourth Ave. subway, a part of the Broadway-Fourth Ave. Rapid Transit R.R., from: (A) D. C. Serber, 1123 Broadway, New York; (B) Station Construction Co., Inc., 407 45th St. Brooklyn; (C) Simon Russek, Inc., 241 Broadway, New York; (D) Charles Meads & Co., 38 Park Row, New York; (E) C. L. Dooley, Inc.; (F) Marble Arch Co., Broadway and 216th St., New York. The item bids were as follows:

	A	B	C	D	E	F
300 cu.yd. concrete	$9.00	$7.00	$13.00	$11.00	$17.00	$15.00
11 cu.yd. common brick masonry	15.00	27.00	15.00	15.00	15.00	15.00
200 cu.yd. removal of old masonry	10.00	10.00	13.00	6.00	10.00	5.00
1 cu.yd. hollow tile masonry	15.00	32.00	15.00	50.00	15.00	20.00
10 sq.yd. resurfacing concrete masonry	0.50	2.00	1.00	3.00	0.50	2.00
43,000 duct ft. tunnel ducts	0.12	0.11	0.10	0.15½	0.10	0.15
15 tons riveted steel	80.00	90.00	90.00	90.00	80.00	70.00
5 tons steel beams and shapes	80.00	75.00	80.00	80.00	80.00	70.00
5 tons steel rods and bars	80.00	60.00	60.00	80.00	65.00	70.00
100 lb. special wire forms	0.10	0.10	0.12	0.15	0.10	0.10
1075 lin.ft. hand rail	0.60	0.40	1.00	0.40	0.20	1.00
1080 sq.ft. tile, 3 ft. x 6 in., straight	0.48	0.60	0.45	0.40	0.48	0.50
45 sq.ft. tile, 2½ in. radius	1.32	1.23	1.15	2.00	1.20	1.00
4065 sq.ft. tile, 3 ft. x 9 in. and 6 ft. x 9 in., straight	0.77	0.80	0.70	0.70	0.70	0.70
25 sq.ft. tile, 2½-in. radius	1.65	1.30	1.20	3.00	1.25	1.25
30 lin.ft. tile bead, 2-in. radius	0.44	1.20	0.50	1.00	0.50	0.50
4300 sq.ft. special tile, white mosaic	0.45	0.72	0.50	0.40	0.55	0.50
1300 sq.ft. mosaic and tile bands	1.20	1.50	0.80	1.00	1.00	1.25
50 sq.ft. name tablets	1.20	1.50	1.00	2.00	1.00	1.25
1 lintel, resetting	20.00	15.00	30.00	20.00	7.00	20.00
700 sq.yd. plastering arch surface on brick and hollow tile	1.05	1.60	0.70	1.00	1.10	1.10
680 sq.yd. plastering on concrete	0.90	1.44	0.70	1.00	0.90	1.10
470 sq.yd. plastering flat surface on brick and hollow tile	0.95	1.44	0.70	1.00	1.00	0.60
45 sq.yd. plastering on concrete	0.70	1.38	0.70	1.00	0.65	0.60
3425 sq.ft. cement work, wainscot or base	0.12	0.12	0.12	0.20	0.15	0.20
175 lin. ft. cement work, cove	0.12	0.11	0.12	0.20	0.15	0.15
1450 sq.ft. cement work, floor finish	0.16	0.15	0.15	0.20	0.15	0.15
25 lin.ft. concrete stairs, self-supporting	0.85	1.60	1.20	3.00	1.50	2.00
10 sq.ft. concrete landings, self-supporting	0.50	0.65	0.60	2.00	0.55	1.00
30 sq.ft. non-slip treads	1.00	0.75	1.00	2.00	1.00	1.00
100 lin.ft. cement in side of stairs	0.12	0.12	0.40	0.50	0.50	0.30
2000 sq.ft. replacing non-slip treads	0.70	0.70	0.80	1.50	1.00	1.00
2 ticket booths, type "P"	750.00	800.00	740.00	650.00	790.00	750.00
8 ticket booths, type "Q"	750.00	800.00	750.00	650.00	790.00	750.00
3 doors, type "D"	73.00	81.00	85.00	80.00	95.00	90.00
3 doors, type "M"	73.00	65.00	65.00	70.00	12.00	70.00
3 doors, toilet stalls, single	50.00	53.00	45.00	60.00	55.00	50.00
1 resetting door	14.00	15.00	14.00	30.00	15.00	20.00
190 sq.ft. windows, double hung	2.85	2.70	2.50	2.00	2.75	3.00
75 sq.ft. windows, hinged	2.80	2.70	3.00	2.00	2.75	3.00
6 door stops	2.35	2.25	2.50	5.00	2.25	3.00
2 chains	1.25	1.80	2.00	2.00	1.75	3.00
70 lin.ft. railings pipe	1.65	1.80	2.00	2.00	1.75	3.00
32 lin.ft. railings, guard at street	3.00	2.40	3.50	3.00	3.25	3.00
Remove existing and install new railing, lump sum	770.00	150.00	150.00	400.00	74.25	.....
48 lin.ft. low-slide gates	11.00	9.00	11.00	10.00	10.50	10.00
10 additional floor boxes	5.00	3.60	6.00	5.00	5.00	5.00
75 lin.ft. 1¼-in. galvanized w.i. pipe	1.10	0.25	1.00	0.40	1.25	0.50
10 lin.ft., 1-in. square steel tubing for ropes	1.70	0.60	1.50	0.40	1.70	1.00
10 lb. c.i. fittings	0.50	0.25	0.50	1.00	0.50	0.10
8 pair c.i. gate posts	85.00	56.00	80.00	40.00	75.00	30.00
6 additional high posts	14.00	6.00	14.00	10.00	15.00	30.00
18 lin.ft. reflectors	2.00	2.00	1.50	2.00	1.50	2.00
25 sq.ft. enam. sign plates	1.00	1.15	1.40	2.00	0.90	2.00
25 vert. in. copper letters	0.20	0.12	0.40	1.00	0.12	0.10
100 sq.ft. polished plate window glass	0.75	0.90	1.00	1.00	1.00	1.00
32 old lamps on posts	3.00	1.80	6.00	4.00	2.50	2.00
45 lin.ft. tread	2.20	2.25	3.00	2.00	2.50	5.00
30 sq.ft. steel platforms	1.10	2.25	2.00	2.00	1.40	2.50
36 ladders track to platform	6.00	11.50	10.00	10.00	7.00	20.00
40 lin.ft. oak hand rail, new	1.00	0.60	1.00	1.00	1.00	1.30
300 lin.ft. oak hand rail place, old	0.50	0.20	0.40	0.50	0.50	0.50
200 sq.ft. platform edge, safety tread	0.75	1.40	0.80	2.40	1.00	1.00
Rough plumbing (lump sum)	1320.00	700.00	900.00	763.00	1350.00	500.00
1 water closet bowl	60.00	65.00	60.00	60.00	64.00	50.00
3 lavatories	50.00	47.00	45.00	60.00	52.00	60.00
2 marine water closet bowls	110.00	125.00	110.00	100.00	118.00	75.00
10 sq.ft. soapstone partition, etc., pipe chamber partition	0.75	1.00	1.50	3.00	1.75	2.00
10 sq.ft. soapstone partition shelves	0.75	1.00	1.50	3.00	1.75	2.00
90 sq.ft. soapstone partition for stalls	0.85	1.00	1.50	2.00	1.75	2.00
100 lb. steel angles, plates, etc	0.05	0.07	0.10	0.10	0.10	0.10
300 lin.ft. electric conduit, ¾ in	0.30	0.21	0.30	0.30	0.29	0.20
150 lin.ft. electric conduit, 1 in	0.40	0.28	0.40	0.40	0.40	0.20
125 lin.ft. electric conduit, ¾-in. flexible conduit	0.30	0.25	0.60	0.40	0.35	0.20
40 electric conduit, 2½-in. galvanized w.i. ferrules	0.50	0.50	0.60	0.50	1.00	1.00
30 c.i. pull boxes, 6x6x6 in.	5.50	1.50	3.00	3.00	4.50	3.00
Asbestos lumber box (lump sum)	100.00	150.00	150.00	150.00	75.00	200.00
3000 painting iron, steel, etc., letters and number	0.20	0.15	0.12	0.15	0.13	0.15
Existing steel, etc. (lump sum)	1500.00	970.00	2500.00	2230.00	2700.00	1000.00
Extended totals	$40,676	$40,694	$41,251	$42,219	$43,117	$42,199

CALIFORNIA STATE HIGHWAY
Tulare County, Division VI, Route 10, Section A

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division VI, Route 10, Section A, of the State Highway in Tulare County, from: (A) Taylor & Berliner, Los Angeles; (B) W. A. Dontanville, Paso Robles; (C) George S. Benson & Co., Los Angeles; (D) Engineer's Estimate. The state will furnish pipe railing for culverts, corrugated iron pipe, reinforcing steel, portland cement, sand and coarse aggregate to cost $17,592. The item bids were as follows:

	A	B	C	D
2970 cu.yd. ordinary excavation	$0.60	$0.65	$0.75	$0.60
2220 cu.yd. borrow excavation	0.70	0.80	0.90	0.60
210 lin.ft. 12-in. corrugated iron pipe	0.60	0.50	0.80	0.40
174 lin.ft. 18-in. corrugated iron pipe	0.80	0.60	1.00	0.50
11 cu.yd. cement-concrete, Class "B" (culverts and monuments)	20.00	15.00	15.00	10.00
3840 cu.yd. cement-concrete pavement	5.50	4.24	3.35	2.85
16 monuments; hauling and setting	1.00	1.00	2.00	0.50
Extended totals	$24,957	$20,378	$17,628	$16,490

WILL LABOR BE SCARCE?

Securing sufficient labor to carry on work under way promises to be one of the particular problems confronting contractors during the coming months. It is true that there was an increase in the number of third-class passengers arriving during the months of March and April, compared with February, but there was likewise an increase in the number of departures. In fact, the total net gain of aliens arriving and departing for the ten months of the current fiscal year, covering practically the war period, was only 28,000. In the year 1914 there was a net gain of 769,000; in 1913 of 815,000; and in 1912, 401,000. Immigration has fallen to such low figures that it is practically useless to make comparisons. For example, in April the arrivals were less than 25 per cent. of what they were in the corresponding month of 1914, and 18 per cent. compared with the corresponding month in 1913. In four of the nine months since the European war started, as shown by these figures, the number of departures exceeded the arrivals. Now with Italy in the fray it will mean that no more Italian labor, particularly male labor, will come to this country, and transportation from southern Europe, is so unsatisfactory that there is no inducement for the Greeks, Romanians, and Bulgarians to come to the United States, even should their governments be willing to permit them, which is a serious question. Moreover, the Italians going back to Italy are numerous, although it must be admitted that there is no such return as was noted among the French, nor the willingness to return which was manifest in the Germans. In the appended table is shown the arrivals and departures, month by month, for the years 1913 and 1914, and the first four months of the present year.

IMMIGRATION STATISTICS

	1915		1914		1913	
	Arrival	Departure	Arrival	Departure	Arrival	Decarture
January	20,684	31,556	53,150	69,218	155,235	57,035
February	18,704	14,188	56,115	34,722	71,355	30,119
March	26,335	15,167	108,923	28,777	121,241	30,987
April	31,765	17,670	142,207	50,234	175,179	45,526
May	.....	.....	126,848	57,783	164,602	62,349
June	.....	.....	85,094	78,207	198,457	58,186
July	.....	.....	72,015	54,885	154,602	62,702
August	.....	.....	44,624	34,757	156,688	37,900
September	.....	.....	45,241	39,410	153,067	54,609
October	.....	.....	35,325	40,748	117,031	53,971
November	.....	.....	27,458	42,525	106,701	56,597
December	.....	.....	72,015	54,885	154,602	62,702

RAPID TRANSIT SYSTEM, NEW YORK, N. Y. SECTION 1, ROUTE 29

Bids were received June 15 by the Public Service Commission for the construction of a part of Route 29, Section 1, beginning at a point under Eastern Parkway, about 192 ft. west of the westerly building line of Nostrand Ave., curving thence southerly under Eastern Parkway and private property into Nostrand Ave. to a point about 220 ft. south of the southerly building line of Church Ave. from (A) NEWMAN & CAREY, 215 Montague St., Brooklyn, N. Y. (awarded contract); (B) Underpining & Foundation Co., (C) D. Donegon, (D) Rodgers & Hagerty, (E) Dock Contracting Co., (F) McArthur Brs., (G) T. A. Gillespie, (H) Charles Copper, (I) E. E. Smith Contracting Co., (J) Degnan Contracting Co., (K) Frawley Kaufman Contracting Co., (L) A. McMullen, (M) Oscar Daniels, (N) J. C. Green. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
370,600 cu.yd. earth excavation above mean high water	$2.12	$1.80	$2.10	$2.85	$1.50	$2.45	$2.90	$2.91	$2.64	$2.75	$3.00	$3.25	$3.00	$4.00
33,000 cu.yd. earth excavation above and below mean high water sewers	1.17	1.80	2.10	2.85	2.50	2.45	3.00	2.81	3.00	2.75	4.00	3.25	3.00	4.00
1690 lf.ft. underpinning, buildings under 7 stories	29.00	40.00	34.00	1.00	32.00	40.00	45.00	40.00	50.00	1.00	30.00	40.00	60.00	50.00
1800 lf.ft. maintaining, protecting and securing buildings	14.50	40.00	34.00	1.00	32.00	25.00	20.00	15.00	30.00	1.00	30.00	35.00	10.00	50.00
56,200 cu.yd. concrete masonry	7.00	8.30	7.00	7.50	6.90	7.20	7.25	6.50	8.00	7.50	7.50	8.00	9.00	8.00
5640 cu.yd. protective concrete masonry	5.50	8.30	7.00	7.50	6.90	7.30	7.25	6.50	7.00	7.50	7.00	8.00	9.00	8.00
20 cu.yd. rubble stone masonry	10.00	6.50	8.00	5.00	7.00	10.00	10.00	6.50	7.00	7.50	6.00	5.00	4.00	8.00
20 cu.yd. dry rubble masonry	10.00	6.00	6.00	3.00	7.00	8.00	8.00	6.50	6.00	5.00	5.00	3.00	3.00	6.00
10 cu.yd. brick masonry	20.00	20.00	18.00	15.00	20.00	15.00	20.00	15.00	15.00	15.00	20.00	15.00	15.00	15.00
2 cu.yd. vitrified brick masonry	40.00	20.00	30.00	30.00	35.00	30.00	18.00	20.00	25.00	20.00	20.00	25.00	25.00	30.00
40 cu.yd. hollow terra cotta brick or tile masonry	15.00	25.00	15.00	15.00	15.00	15.00	18.00	15.00	15.00	15.00	25.00	15.00	15.00	15.00
1000 bbl. Portland cement grout	2.40	1.60	2.50	2.50	1.00	2.50	2.75	2.50	2.50	1.50	2.00	2.00	1.50	2.50
1000 lin.ft. timber piles in place and prepared	0.60	0.20	0.25	0.25	0.25	0.50	0.40	0.01	0.40	0.50	0.50	0.30	0.30	0.30
2 M ft. b.m. timber foundations, placed and fastened	50.00	40.00	30.00	30.00	30.00	80.00	55.00	0.01	50.00	50.00	100.00	40.00	40.00	50.00
50 cu.yd. broken stone or gravel	3.00	3.00	3.50	2.00	1.00	2.00	2.10	2.00	3.00	3.00	2.00	2.50	1.50	2.00
15,500 sq.yd. waterproofing, 1-ply	0.36	0.40	0.45	0.35	0.40	0.36	0.35	0.40	0.50	0.50	0.40	0.40	0.35	0.40
100 sq.yd. waterproofing, 2-ply	0.75	0.80	0.85	0.60	0.84	0.60	0.70	0.75	0.75	1.00	0.75	0.50	0.70	0.65
35,000 sq.yd. waterproofing, 3-ply	0.95	1.20	1.00	0.80	1.00	0.92	1.00	1.00	1.00	1.25	1.00	0.75	1.20	1.00
100 sq.yd. waterproofing, 4-ply	1.25	1.60	1.40	1.15	1.25	1.25	1.30	1.25	1.25	1.50	1.30	1.00	1.40	1.25
100 sq.yd. waterproofing, 5-ply	1.50	2.00	1.80	1.40	1.50	1.60	1.75	1.50	1.50	1.75	1.65	1.35	1.70	1.50
210 sq.yd. waterproofing, 6-ply	1.85	2.40	2.10	2.00	2.40	1.90	2.10	1.75	1.75	2.00	2.00	1.60	2.00	2.50
100 sq.yd. waterproofing, dry ply	0.20	0.35	0.40	0.35	0.15	0.30	0.25	0.45	0.50	0.30	0.40	0.20	0.35	0.30
2180 cu.yd. waterproofing, brick in asphalt mastic	23.00	20.00	23.00	20.00	22.00	25.00	23.00	25.00	17.50	18.00	20.00	22.00	25.00	25.00
50 lin.ft. drain pipe, 12 in. vitrified	0.50	1.20	1.00	0.75	2.00	0.90	0.65	1.40	1.00	0.80	1.00	1.00	1.50	0.70
50 lin.ft. drain pipe, 10 in. vitrified	0.50	1.00	1.00	0.65	1.80	0.80	0.60	1.25	0.88	0.55	0.70	0.80	1.00	0.60
50 lin.ft. drain pipe, 8 in. vitrified	0.40	0.80	0.75	0.50	1.70	0.70	0.50	1.00	0.75	0.40	0.50	0.60	0.80	0.50
50 lin.ft. drain pipe, 6 in. vitrified	0.40	0.60	0.75	0.45	1.60	0.50	0.45	0.60	0.65	0.30	0.40	0.50	0.60	0.40
50 lin.ft. drain pipe, 4 in. vitrified	0.30	0.40	0.50	0.40	1.50	0.25	0.40	0.60	0.55	0.20	0.30	0.40	0.30	0.30
50 lin.ft. drain pipe, 6 in. c.i.	1.00	2.50	1.00	1.00	3.00	1.25	0.65	1.25	2.00	1.25	1.50	1.25	1.00	1.00
50 lin.ft. drain pipe, 4 in. c.i.	0.80	1.60	0.75	0.50	2.50	1.00	0.50	1.00	1.50	1.00	1.00	1.00	0.75	0.60
200 lin.ft. drain pipe, 10 in. c.i.	1.80	3.00	2.30	2.50	2.00	1.70	1.90	3.00	4.00	2.00	2.00	2.00	2.00	1.50
100 lin.ft. 3 in. "extra heavy" c.i. pipe and fittings	0.60	1.50	0.75	1.00	0.85	1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	0.75
350 lin.ft. 4-in. "extra heavy" c.i. pipe and fittings	0.80	1.60	1.25	1.25	1.25	1.30	0.65	1.25	1.50	1.00	1.25	1.25	1.25	1.00
300 lin.ft. 6-in. "extra heavy" c.i. pipe and fittings	1.20	2.50	1.50	1.50	1.35	1.90	0.90	2.00	2.00	1.25	1.75	1.65	1.50	1.25
300 lin.ft. 8-in. "extra heavy" c.i. pipe and fittings	1.40	3.00	2.00	2.50	2.00	2.50	1.35	3.00	3.00	1.50	2.00	2.00	2.50	2.00
263,800 duct. ft. tunnel ducts in place	0.11	0.20	0.11	0.12	0.11½	0.10	0.14	0.10	0.11	0.15	0.10	0.11	0.12	0.11
56,100 duct. ft. railroad ducts in place	0.22	0.20	0.12	0.15	0.11½	0.15	0.25	0.12	0.15	0.20	0.20	0.17	0.14	0.16
2600 ton riveted steel, painted and erected	60.00	52.00	58.00	55.00	57.00	59.65	53.00	55.00	65.00	65.00	60.00	58.00	67.00	63.00
3815 ton steel beams and shapes with connections	40.75	42.00	52.00	55.00	51.00	53.30	50.00	55.00	57.50	55.00	60.00	55.00	62.60	57.00
735 ton steel rods and bars built in concrete	43.00	70.00	57.00	50.00	45.00	50.00	40.00	55.00	45.00	50.00	50.00	65.00	50.00	50.00
35 ton miscellaneous iron castings	75.00	90.00	70.00	65.00	65.00	65.00	32.00	70.00	55.00	60.00	50.00	50.00	50.00	50.00
3 ton miscellaneous iron furnishings	75.00	100.00	70.00	100.00	75.00	100.00	33.00	70.00	65.00	75.00	80.00	70.00	50.00	50.00
20 lb. special wire forms, in pace	1.00	0.25	0.25	0.10	0.25	0.10	1.00	0.12	0.50	0.25	0.30	0.50	0.50	0.10
9760 lin.ft. 1¼ seasoned oak hand rail, in place	0.30	0.30	0.45	0.26	0.28	0.40	0.45	0.30	0.30	0.50	0.50	0.35	0.50	0.50
11,750 sq.ft. steel gratings for ventilation	1.70	1.00	1.50	1.50	1.40	1.50	1.40	1.30	1.50	1.25	1.25	1.40	1.75	1.50
1500 sq.ft. vault lights, in place	1.30	1.00	1.50	1.25	1.10	1.50	1.00	1.30	1.10	3.00	1.50	1.50	1.50	1.50
4750 sq.yd. sidewalks restored	3.00	1.35	1.25	1.35	2.25	2.00	1.20	1.25	1.60	2.00	2.00	1.00	2.00	2.00
1120 sq.yd. repavement of roadways, asphalt	2.50	2.20	2.50	2.50	2.25	2.75	1.60	2.50	2.00	2.50	2.50	2.50	1.50	2.50
26,700 sq.yd. repavement of roadways, granite block	0.75	0.80	2.00	0.25	1.25	2.50	0.55	3.00	0.70	2.50	2.50	2.00	2.00	2.50
9400 sq.yd. repavement of roadways, Belgian block	0.40	0.80	2.00	0.25	1.25	3.00	0.55	1.00	0.75	2.50	1.00	2.00	2.00	0.75
100 lin.ft. new bluestone curb in place	1.50	2.00	1.30	1.00	2.00	1.00	0.65	1.00	1.40	1.50	1.25	1.50	1.50	1.00
100 lin.ft. new 8-in. granite curb	2.50	2.50	2.25	2.00	2.00	1.20	0.90	1.50	2.50	1.75	2.00	2.50	2.00	2.00
95 sq.yd. park surface restored, all classes	2.00	2.00	1.00	1.00	1.00	2.00	1.00	1.25	2.50	2.00	2.00	1.00	2.00	1.00
15,500 lin.ft. ¾-in. w.i. electric conduits	0.19	0.20	0.25	0.15	0.18	0.15	0.07	0.20	0.30	0.20	0.25	0.20	0.20	0.20
800 lin.ft. 1¼-in. w.i. electric conduits	0.30	0.40	0.50	0.25	0.32	0.30	0.17	0.40	0.40	0.30	0.40	0.30	0.40	0.30
450 lin.ft. 2-in. w.i. electric conduits	0.45	0.50	0.75	0.30	0.40	0.40	0.25	0.60	0.55	0.40	0.60	0.50	0.50	0.40
4500 lin.ft. 1-in. w.i. electric conduits	0.25	0.30	0.40	0.20	0.24	0.20	0.11	0.30	0.33	0.25	0.30	0.25	0.30	0.25
1250 c.i. outlet boxes	1.00	1.50	1.30	1.00	0.50	1.00	0.50	1.00	0.80	1.00	1.00	0.75	1.00	0.97
10 c.i. pull boxes	1.12	1.50	12.00	2.00	3.50	2.00	1.00	1.00	5.00	1.00	3.00	3.00	1.00	5.00
300 lin.ft. 6-in. c.i. pipe and fittings "extra heavy"	1.20	2.50	1.30	1.50	1.40	1.50	0.75	2.00	2.00	1.50	1.50	1.50	2.00	1.50
150 lin.ft. 3-in. c.i. pipe and fittings "extra heavy"	0.60	1.50	0.90	1.00	1.00	1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	0.75
3460 lin.ft. sewer pipe, 12-in. vitrified	0.50	3.60	2.50	2.40	2.75	3.00	0.90	3.00	2.75	3.50	3.00	2.50	2.50	3.10
1000 lin.ft. sewer pipe, 15-in. vitrified	0.85	2.80	3.00	2.75	3.00	3.70	1.00	3.50	3.25	4.00	3.50	3.00	3.00	3.35
100 lin.ft. sewer pipe, 18-in. vitrified	1.40	5.00	3.00	3.25	3.20	4.20	1.50	4.00	3.50	4.50	4.00	4.00	3.50	3.60
100 lin.ft. sewer pipe, 20-in. vitrified	1.75	5.00	4.00	4.00	3.55	4.50	2.00	4.50	4.00	5.00	4.50	4.50	3.75	3.85
100 lin.ft. sewer pipe, 22-in. vitrified	2.00	5.00	5.00	4.50	3.95	5.00	2.00	4.75	4.50	5.25	5.00	4.75	4.00	4.10
1300 lin.ft. sewer pipe, 24-in. vitrified	2.00	6.00	5.00	4.50	4.00	5.20	3.00	5.00	5.00	5.50	5.50	5.00	5.00	4.35
60 ton sewer pipe, c.i. straight	50.00	40.00	50.00	40.00	36.00	45.00	50.00	50.00	45.00	60.00	50.00	60.00	37.00	40.00
12 ton sewer pipe, c.i. special	100.00	80.00	72.00	75.00	70.00	70.00	60.00	60.00	90.00	90.00	80.00	90.00	65.00	70.00
1060 lin.ft. sewer egg-shaped 3 ft. 6 in. x 2 ft. 4 in.	3.60	6.00	7.50	6.00	6.25	6.50	8.00	6.00	7.00	8.00	6.00	8.00	7.00	5.60
140 lin.ft. sewer egg-shaped 3 ft. 9 in. x 2 ft. 6 in.	4.00	6.00	8.50	6.25	6.50	7.00	9.00	6.50	7.50	9.00	7.00	9.00	7.50	6.10
50 lin.ft. sewer egg-shaped 4 ft. 6 in. x 3 ft. 6 in.	6.00	6.00	10.00	8.00	8.00	10.00	12.00	7.00	8.00	10.00	8.00	10.00	8.00	6.25
650 lin.ft. circular sewer 4 ft. ; in. diameter	5.00	7.00	10.00	6.00	8.00	8.00	8.00	7.00	8.25	10.00	10.00	10.00	8.00	6.60
1280 lin.ft. circular sewer 4 ft. 9 in. diameter	7.30	9.50	12.00	8.50	8.75	9.00	10.00	7.50	10.00	11.00	10.50	12.00	9.00	8.70
1600 lin.ft. circular sewer 5 ft. 0 in. diameter	8.00	11.00	12.00	9.00	9.25	10.00	13.00	8.00	10.50	13.00	11.00	14.00	10.00	10.80
2620 lin.ft. circular sewer 5 ft. 3 in. diameter	8.25	11.25	13.00	9.25	9.60	12.00	14.50	8.50	11.50	14.00	11.50	16.00	12.00	11.40
350 lin.ft. circular sewer 5 ft. 6 in. diameter	9.00	12.00	13.00	9.50	10.00	14.00	16.00	9.00	12.50	15.00	12.00	18.00	14.00	12.00
2 12-in. iron bronze sluice gates with sipots	75.00	200.00	75.00	50.00	75.00	100.00	80.00	20.00	50.00	100.00	50.00	50.00	200.00	50.00
15,000 lin.ft. electric (overhead trolley) railroads, one track	2.30	0.50	4.00	0.25	2.25	5.00	1.50	3.00	3.00	10.00	7.00	4.00	8.00	10.00
350 lin.ft. water pipe, 4-in.	0.35	0.60	1.00	0.30	0.75	0.50	1.00	0.60	0.75	1.00	0.80	1.00	1.00	1.00
1400 lin.ft. water pipe, 6-in.	0.35	0.90	1.00	0.40	1.00	0.80	1.10	0.75	1.25	1.00	1.25	1.50	1.50	1.25
1400 lin.ft. water pipe, 8-in.	0.50	1.20	1.30	0.50	1.25	1.10	1.40	1.50	1.10	1.50	1.25	1.50	2.50	1.50
150 lin.ft. water pipe, 12-in.	0.60	1.80	1.60	0.75	1.75	1.50	1.65	1.60	1.50	2.00	1.40	2.00	3.00	1.50
75 lin.ft. water pipe, 16-in.	0.85	2.40	2.50	0.90	2.50	2.00	2.40	1.80	2.00	2.50	2.00	3.00	4.00	2.50
1920 lin.ft. water pipe, 20-in.	1.20	3.00	3.10	1.25	3.50	2.50	3.00	2.00	2.25	2.50	3.00	4.00	5.00	2.75
300 lin.ft. water pipe, 48-in.	5.50	7.00	10.00	4.00	7.00	6.50	11.00	4.00	9.00	10.00	10.00	12.00	9.00	9.00

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
100 service connections for water pipes	12 00	20 00	20 00	25 00	20 00	12 00	20 00	20 00	25 00	25 00	20 00	20 00	10 00	15 00	
250 lin.ft. gas pipe, 3-in.	0 35	0 50	0 50	0 30	0 85	0 65	0 70	0 50	0 75	1 00	0 40	0 60	1 50	0 40	
700 lin.ft. gas pipe, 4-in.	0 35	0 60	0 50	0 50	1 00	0 75	0 90	0 60	0 90	1 00	0 50	0 75	2 00	0 50	
650 lin.ft. gas pipe, 6-in.	0 35	0 90	0 75	0 50	1 50	1 00	1 25	0 75	1 25	1 25	0 80	1 00	2 50	0 75	
300 lin.ft. gas pipe, 8-in.	0 50	1 20	1 00	0 60	2 00	1 25	1 65	1 00	1 50	1 25	1 00	1 25	2 50	1 00	
1900 lin.ft. gas pipe, 10-in.	0 64	1 50	1 50	0 70	1 40	1 50	1 80	1 50	1 75	1 50	1 20	1 50	3 00	1 25	
100 lin.ft. gas pipe, 12-in.	0 75	1 80	1 50	0 75	1 60	1 80	2 00	1 80	1 75	1 50	1 60	1 75	3 50	1 50	
1850 lin.ft. gas pipe, 16-in.	0 90	2 00	2 00	1 26	2 00	2 50	2 50	2 00	2 50	1 75	2 00	2 25	4 00	1 75	
450 lin.ft. gas pipe, 42-in.	4 50	8 00	7 00	4 00	6 00	7 00	6 50	6 00	6 00	6 00	10 00	12 50	4 50	2 00	
80 lin.ft. gas pipe, 20-in.	1 25	2 00	4 00	1 50	3 00	4 00	5 50	3 00	3 50	2 50	5 00	4 00	5 00	2 50	
50 lin.ft. gas pipe, 24-in.	1 50	2 00	4 00	2 00	4 00	6 00	6 00	4 00	4 00	2 00	5 00	5 00	6 00	3 00	
8000 lin.ft. 6-in. by-passing pipe	1 00	3 00	3 00	2 50	2 75	2 20	2 75	2 50	3 50	2 25	2 00	3 00	3 00	3 00	
7300 lin.ft. 8-in. by-passing pipe	1 40	3 00	3 00	2 50	3 50	3 00	3 50	3 00	3 50	2 50	3 00	3 50	3 50	3 25	
2000 lin.ft. 12-in. by-passing pipe	2 50	3 50	4 50	4 50	4 50	4 00	4 00	5 00	5 00	3 00	4 00	4 50	4 00	4 50	
650 lin.ft 4-in. by-passing pipe	0 85	2 50	2 00	2 00	2 25	2 00	1 00	2 50	2 50	2 50	2 50	2 75	1 50	2 50	
350 lin.ft. 12-in. by-passing pipe, on trestle	3 50	3 50	8 00	3 50	3 60	4 00	4 00	5 00	6 00	6 00	6 00	4 75	3 50	4 50	
1550 lin.ft. 16-in. by-passing pipe, on trestle	4 50	5 00	5 00	4 00	4 50	6 00	5 00	6 00	10 00	10 00	8 00	6 00	4 50	4 75	
170 lin.ft. 6-in. by-passing pipe, on trestle	1 10	3 00	5 00	2 00	2 00	2 00	2 50	2 50	5 00	7 00	5 00	3 25	4 00	3 00	
500 lin.ft. 36-in. by-passing pipe, on trestle	14 50	7 00	20 00	6 00	2 00	10 00	8 50	15 00	15 00	14 00	15 00	15 00	10 00	13 50	
500 lin.ft. 8-in. by-passing pipe, on trestle	1 40	3 00	5 00	3 00	3 00	3 00	3 00	3 00	6 00	6 00	4 00	3 75	3 50	3 50	
1300 lin.ft. trestle to support by-passing pipes	2 40	3 00	3 00	2 50	2 00	2 50	3 75	4 00	3 00	2 00	4 00	3 50	3 50	3 50	
160 lin.ft. catenary for over 16-in. pipe	7 50	12 00	1 00	2 50	8 00	2 20	2 20	4 00	6 00	2 00	5 00	2 50	2 00	2 25	
1300 lin.ft. catenary for 16-in. pipe and under	4 75	20 00	0 75	2 50	8 00	5 00	1 80	6 00	4 50	2 00	2 00	2 00	2 00	2 25	
250 service connection for gas pipes, all sizes	6 25	25 00	12 00	25 00	8 00	5 00	4 00	10 00	25 00	25 00	20 00	20 00	10 00	10 00	
Maintain and supply 16-in. G Main in Nostrand Ave. (lump sum)	23,000 00	1550 00	3000 00	500 00	1500 00	5000 00	5000 00	100 00	1500 00	2500 00	500 00	3000 00	2350 00	2350 00	
75 ton new c.i. sub and spigot straight pipe	34 00	40 00	45 00	30 00	40 00	35 00	25 00	45 00	30 00	40 00	45 00	45 00	35 00	35 00	
30 ton new c.i. hub and spigot special pipe	80 00	80 00	70 00	65 00	75 00	70 00	40 00	65 00	75 00	60 00	80 00	75 00	65 00	65 00	
2200 duct. ft. electric ducts and conduits	0 40	0 75	0 50	0 50	0 50	0 40	0 75	0 40	1 00	1 00	1 00	0 50	1 00	0 54	
100 lin.ft. 2½-in. w.i. electric conduits	0 35	1 00	0 75	1 00	0 60	0 45	0 90	0 45	1 00	1 00	1 00	0 60	1 00	0 65	
100 lin.ft. 3-in. w.i. electric conduits	0 40	1 00	1 00	1 00	0 90	0 45	0 90	0 45	1 10	1 00	1 00	0 70	1 00	0 70	
100 lin.ft. 3½-in. w.i. electric conduits	0 50	1 00	1 50	1 00	1 10	0 50	1 10	0 55	1 20	1 00	1 00	0 70	1 00	0 73	
100 lin.ft. 4-in. w.i. electric conduits	0 60	1 00	2 00	1 00	1 30	0 55	1 40	0 55	1 30	1 00	1 00	0 80	1 00	0 80	
100 lin.ft. 4½-in. w.i. electric conduits	0 80	1 00	2 50	1 00	1 40	0 60	1 50	0 60	1 40	1 00	1 00	1 00	1 00	0 85	
650 lin.ft. 2-in. Edison conduit	0 35	1 00	0 75	1 00	1 50	0 40	1 45	1 25	1 50	1 00	1 00	0 50	1 00	1 25	
80 lin.ft. 2½-in. Edison conduit	0 40	1 00	1 00	1 00	2 00	0 50	1 50	1 25	1 50	1 00	1 00	0 60	1 00	1 50	
300 lin.ft. 3-in. Edison conduit	0 45	1 00	1 50	1 00	2 00	0 60	1 60	1 50	2 00	1 00	1 00	0 70	1 00	1 75	
30 service connection for electric ducts	10 00	25 00	20 00	25 00	20 00	12 00	20 00	10 00	25 00	50 00	10 00	20 00	10 00	15 00	
100 duct. ft. wooden electric-ducts and conduits	0 25	1 00	0 80	1 00	0 60	1 00	1 20	0 50	1 00	1 00	1 00	0 50	0 50	0 60	
Extended totals	$2,073,303	$2,187,286	$2,342,401	$2,376,309	$2,392,608	$2,512,485	$2,534,532	$2,539,048	$2,633,766	$2,765,887	$2,834,736	$2,904,029	$2,944,287	$3,331,566	

(Continued from Page 21)

Marlin, Tex.—At a recent election the citizens voted in favor of the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a school. Noted June 3.

San Diego, Tex.—An election will be held July 20 by the Commissioners of Duval County to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a courthouse.

Stillwell, Okla.—An election will be held July 20 to vote on the question of issuing $40,000 in bonds, the proceeds of which will be used for the construction of a courthouse and jail for Adair County.

✚Tucson, Ariz.—The general contract for the construction of a cathedral for the Scottish Rite Corporation has been awarded to WEYMOUTH CROWELL, 2028 West Ninth St., Los Angeles, Calif. The estimated cost is $74,000. Noted May 27.

Davenport, Wash.—Bids will be received until July 3 by H. L. Paige, Clk. of School Dist. No. 14, for the construction of a school. The estimated cost is $50,000. A. G. Rigg, Empire State Bldg., Spokane, is Arch.

Seattle, Wash.—Bids will be received about July 10 by the Metropolitan Building Co., for the construction of a 120x240-ft. building at Fifth Ave. between University and Seneca St. The building will be occupied by the Seattle Arena Co. and will cost about $100,000. Howells & Stokes is Arch.

✚Walla Walla, Wash.—(Official)—J. B. SWEATT & CO., Spokane, at $149,900, using Indiana sandstone, has been awarded the contract for the construction of a courthouse for Walla Walla County. C. F. Dement is County Audr. and Osterman & Seibert is Arch. Noted May 27 and June 10.

✚Pilot Rock Junction, Ore.—(Pendleton post office)—The contract for the construction of terminals for the Oregon-Washington R.R. & Navigation Co. has been awarded to TWOHY BROS., Portland. The estimated cost is $400,000. Noted under The Dalles, Ore., June 24.

Los Angeles, Calif.—The lowest bid submitted on the general contract for the construction of a two-story high school at Rowan Ave. was that of the Huntsberger-Reed Co., Van Nuys Bldg., at $48,636. Noted June 3.

Suisun City, Calif.—At a recent election the citizens voted in favor of issuing $40,000 in bonds to be used for the construction of a high school.

✚London, Ont.—The Board of Education has awarded the contract for the construction of a school to S. WILLIS, 765 Talbot St., London. The estimated cost is $75,000. Noted Feb. 25.

The Narrows, Man.—Bids will be received until July 10 by David Clapp, Secy., School Bd., for the construction of a school. The estimated cost is $43,000. G. N. Taylor is Arch.

Electrification on the Pennsylvania—By July 1 electrification work is expected to be completed and the line in operation on the 20 miles of the Pennsylvania's Philadelphia-New York line between the Broad St. Station in Philadelphia and Paoli, Penn. The cost is put at $4,000,000. Part of the work has been unusually difficult. For instance, between West Philadelphia and Broad St. the movement of 2295 trains and engines is squeezed down to a six-track neck at the first interlocking tower west of Broad St. Station, where 55 switches and 52 signals are established. Reconstruction of this neck for electrification had to be carried on without interference with traffic. In the 20-mile stretch not a life was lost nor did any serious accident occur from electric shock throughout the work, although 660 miles of electric wires were set up and 760 poles erected in addition to 36 signal stations and four power stations. The electric service will be operated by the catenary system of conductors, the current being drawn from the lower of two trolley wires suspended from the catenary. The lower or contact wire is made of a hard, lasting alloy called "phonobronze" and is suspended below the other wire which is of copper. Instead of trolley poles and wheels, the current is conveyed from the wire to the car motors by means of "pantagraphs." The airbrakes are of the new type known as "electrically actuated," while the automatic block signal system used in the new electrified zone is of an entirely new style. The main feature of the latter is the employment day and night of rows of brilliant white electric lights set in a black background.

CATALOG NOTICES

Orton & Steinbrenner Co., Chicago, Ill. Catalog. Locomotive cranes and grab buckets. Illustrated, 44 pp., 6x9½ in.

Fairbanks, Morse & Co., 900 South Wabash Ave., Chicago, Ill. Catalog No. 114A. Practical Irrigation by Pumping. Illustrated, 40 pp., 6x9 in.

Ayer & Lord Tie Co., Railway Exchange Bldg., Chicago, Ill. Booklet. Interior wood blocks for floors. Illustrated, 16 pp., 3½x6½ in.

Emerson Pump & Valve Co., Alexandria, Va. Catalog. Steam pumps, foot valve and quick cleaning strainers. Illustrated, 80 pp., 6x9 in.

The Weber Chimney Co., 332 South Michigan Ave., Chicago, Ill. Catalog No. 10. Reinforced concrete chimneys. Illustrated, 48 pp., 5x9 in.

The Fargo Mfg. Co., Inc., Poughkeepsie, N. Y. Catalog No. 800. Electrical wiring devices. Illustrated, 18 pp., 6x9 in. Catalog No. 700 and Bulletin No. 402. Mechanical connecting devices for trolley construction. Illustrated, 6x9 in.

Cement-Gun Co., Inc., 30 Church St., New York. Bulletin No. 91. "Tunnel Waterproofing with Cement-and-Clay Mortar Fifty Feet Below Sea Level." Illustrated, 4 pp., 3½x6 in. Bulletin No. 101. "The Cement-Gun Process of Permanently Repairing Coke Ovens." Illustrated, 4 pp., 6x9 in.

Gifford-Wood Co., Hudson, N. Y. Buletin No. 16. Wagon loaders for handling stone, gravel, etc. Illustrated, 12 pp., 6x9 in.

Gifford-Wood Co., Hudson, N. Y. Bulletin No. 17. Pivoted bucket carrier for elevating and conveying stone, gravel, sand, etc. Illustrated, 16 pp., 6x9 in.

Contracts to Be Let

Bids received until July 19, 1915.

Water-Works Distributing System

Borough of Totowa, Passaic Co., N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Totowa, Passaic Co., N. J., until 8:15 P.M. on Monday, the 19th day of July, 1915, at the Council Chamber, in the Borough Hall, on Lincoln Avenue, in said Borough, for the construction of a water-works distributing system.

The work involved consists of furnishing all material and labor in the construction of about 11 miles of water mains (bell and spigot pipe), 4" to 10" in size, together with furnishing and installing about 75 fire hydrants, furnishing and setting about 150 gate valves and boxes, constructing two meter chambers, and other incidental work necessary to complete the system.

Bids will be received as follows (on any or all of the four below):

(1) For furnishing c.i. water pipe (bell and spigot) and special castings.

(2) For furnishing Fire Hydrants, Gate Valves and Boxes.

(3) For Construction (Labor and Workmanship, etc.).

(4) For the work as a whole (furnishing all material and labor necessary to complete the system).

Each proposal or bid shall be accompanied by a certified check for five per cent. (5%) of the amount of the bid.

The contract bond will be fifty per cent. (50%) of the amount of the contract.

Copies of the plans, proposal forms, specifications, and forms of bonds, and contract can be seen at the office of Wm. Ferguson's Son, United Bank Building, No. 152 Market St., Paterson, N. J.; or may be obtained by prospective bidders upon depositing five dollars ($5.00) with Wm. Ferguson, Jr., Boro. Engr., which sum will be refunded upon return of plans and specifications within five (5) days after the contract is awarded, if same are in good condition when returned.

The Mayor and Borough Council reserve the right to reject any or all bids, waive any informalities in the bids received, and to accept any bids which it deems most favorable to the Borough of Totowa, N. J.

LINDEN REDMAN, Boro. Clerk.

WALTER R. HUDSON, Mayor.

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Bids received until July 15, 1915.

Water-Works, Sewerage System, Disposal Plant

Clayton, Del.

Sealed proposals will be received by the Town Council of Clayton, Delaware, up to 8 o'clock P.M. of the 15th day of July, for furnishing all the labor, plant and material and doing all the work necessary to construct a water supply, sewerage system and disposal plant.

The work includes a tower and tank, pumping station, driving wells, all machinery, laying 4 and 6" cast iron mains, also 2½ miles sewers 8" to 12", appurtenances, and a disposal plant.

A certified check for $1000 must accompany each bid. The Council reserves the right to reject any or all bids or accept the most favorable bid.

Plans may be seen and specifications and forms of proposal obtained from W. R. Clements, Secretary, or at the office of Herbert W. Hatton, Consulting Engineer, Equitable Building, Wilmington, Del. A full set of prints will be mailed to bidders upon receipt of $3, which sum will be returned only to the successful bidder.

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U. S. ENGINEER OFFICE, Wilmington, Del.—Sealed proposals for dredging Tuckerton Creek and Absecon Creek, N. J., will be received here until 11 A.M., July 24, 1915, and then opened. Further information on application.

OFFICE OF THE COMMISSIONERS, D. C., June 24, 1915.—Sealed proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M., on July 7, 1915, for the construction of Sewers in the District of Columbia, involving the construction of approximately 6,000 linear feet of pipe sewer 10 inches to 12 inches diameter. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

Bids received until July 7, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Wednesday, the 7th day of July, 1915, for the repair of highways in the following counties:

Albany (two contracts—resurfacing); Broome (one contract); Cayuga (two contracts—Resurfacing and Surface Treatment); Columbia (4 contracts—Surface Treatment); Delaware (one contract—Surface Treatment); Dutchess (one contract—Resurfacing); Erie (one contract—Resurfacing); Franklin (one contract—Surface Treatment); Greene (one contract—Surface Treatment); Herkimer (one contract—Resurfacing); Madison (one contract—Resurfacing); Monroe (one contract—Resurfacing); Oneida (5 contracts—Resurfacing and Surface Treatment); Ontario (two contracts—Resurfacing and Surface Treatment); Orange (one contract—Surface Treatment); Rensselaer (one contract—Resurfacing); Rockland (two contracts—Resurfacing); Saratoga (one contract—Resurfacing); St. Lawrence (two contracts—surface treatment); Schenectady (one contract—Surface Treatment); Suffolk (one contract—Surface Treatment); Westchester (one contract—Surface Treatment).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose divisions the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

⌘

Bids received until July 23, 1915.

Concrete Reservoir

Binghamton, N. Y.

Sealed proposals will be received by the Board of Water Commissioners, at its office in Binghamton, New York, up to ten o'clock A.M., Friday, July 23, 1915, and then and there opened, for furnishing the materials and constructing a Covered Reservoir of 750,000 gallons capacity.

Plans and Specifications, with blank form of proposal, may be examined at the office of the Board of Water Commissioners, Binghamton, N. Y., or copies will be furnished to intending bidders on receipt of a deposit of ten dollars ($10.00), which will be returned to the party furnishing the same upon the return, in good order, of the Plans and Specifications.

A deposit of $500.00 in cash or certified check is required with proposal. Bond of $5000.000 required with contract.

Payments monthly to the extent of 90% of the Engineer's estimate of work accomplished, including allowance for materials.

Each bidder will be required to state what work of a similar nature he has done, and the Board of Water Commissioners reserve the right to reject any or all bids if they deem it to the interest of the City so to do.

JOHN D. DAVIDSON, Secretary,
Board of Water Commissioners

FREDERIC E. BECK, Engineer.

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U. S. ENGINEER OFFICE, 305 Southern Building, Washington, D. C.—Sealed proposals for furnishing materials and erecting complete a brick storehouse in McMillan Park will be received here until 12 M., July 17, 1915, and then publicly opened. Information on application.

U. S. ENGINEER OFFICE, Jacksonville, Fla.—Sealed proposals will be received here until 12 noon, July 24, 1915, and then opened, for dredging and rock removal in St. Johns River, Fla. Further information on application.

PROPOSALS FOR LEVEE WORK—Office of Third Mississippi River District, P. O. Box 404, Vicksburg, Miss.—Sealed proposals will be received here until 11 a.m., July 12, 1915, and then opened, for constructing about 1,415,000 cubic yards of levee work. Further information on application.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

BUILDING LESS ACTIVE

Chiefly due to the lack of any large building work in New York City, the returns showing the estimated cost of buildings from plans filed in June are below those of the corresponding month last year in 21 Eastern cities. It must be remembered, too, that June last year was more active than usual. For the first six months of the year, however, there is a slight gain. In 12 Southern cities, the falling off is less than in the earlier months of the year. In the Central States, while the expenditures are large, they are below last year, and in the Western States the boom last year incident to the fair this year makes the comparison unfortunate.

In the following table is given the estimated cost of buildings in important cities compared with the corresponding month in 1914, together with the total estimated expenditure in the first six months of 1915 and of 1914:

EASTERN STATES

	Month of June		First Six Months of Year	
	1915	1914	1915	1914
Albany, N. Y.	$359,405	$860,685	$2,011,990	$3,884,460
Buffalo, N. Y.	1,667,000	2,569,000	5,597,000	6,564,000
Elizabeth, N. J.	109,614	132,453	568,459	708,933
Hartford, Conn.	462,523	658,672	2,763,927	2,373,371
Hoboken, N. J.	2,400	58,375	64,530	561,902
Jersey City, N. J.	519,958	395,162	2,800,736	1,957,253
Newark, N. J.	770,884	586,220	4,640,966	4,072,237
New Bedford, Mass.	201,150	269,625	1,816,574	1,734,607
New Haven, Conn.	451,025	440,271	2,867,565	1,978,410
New York, N. Y.				
Bronx	1,173,075	2,700,000	15,897,500	13,952,603
Brooklyn	4,063,355	5,298,550	12,267,245	22,604,150
Manhattan	3,290,330	3,393,350	39,638,720	26,276,740
Queens	1,744,075	2,530,655	10,015,546	10,800,167
Paterson, N. J.	314,748	186,326	771,241	848,911
Philadelphia, Penn.	3,873,850	3,557,895	19,066,390	21,105,720
Pittsburgh, Penn.	1,212,472	2,450,281	4,205,306	9,340,936
Portland, Maine	215,425	215,325	.....	.....
Reading, Penn.	152,900	67,575	556,575	910,200
Rochester, N. Y.	969,632	1,026,327	4,757,668	5,028,524
Scranton, Penn.	343,121	106,303	801,750	585,309
Springfield, Mass.	451,538	560,735	3,269,189	2,741,064
Syracuse, N. Y.	414,119	181,020	1,842,485	1,019,005
Utica, N. Y.	272,400	329,815	1,160,900	892,000
Wilkes-Barre, Penn.	58,111	410,811	.....	.....
Totals	$23,093,101	$28,985,431	$137,355,262	$135,868,065

SOUTHERN STATES

	Month of June		First Six Months of Year	
	1915	1914	1915	1914
Atlanta, Ga.	$334,246	$419,654	$2,131,691	$2,999,797
Chattanooga, Tenn.	61,435	60,145	253,885	633,440
Dallas, Tex.	142,125	588,945	1,524,515	3,483,563
Ft. Worth, Tex.	52,553	180,175	453,358	1,225,413
Houston, Tex.	114,392	242,345	838,662	1,823,486
Louisville, Ky.	332,710	517,540	1,788,095	2,557,855
Memphis, Tenn.	285,275	283,012	1,501,493	2,014,882
New Orleans, La.	279,731	364,599	1,355,690	1,427,990
Norfolk, Va.	245,384	217,827	1,037,468	1,359,840
Richmond, Va.	264,398	172,539	1,734,662	2,099,821
San Antonio, Tex.	98,310	240,090	.....	.....
Washington, D. C.	1,142,482	942,325	5,240,159	5,647,819
Totals	$3,353,311	$4,229,196	$17,859,678	$25,275,906

CENTRAL STATES

	Month of June		First Six Months of Year	
	1915	1914	1915	1914
Akron, Ohio	$318,900	$398,325	$1,516,690	$1,973,070
Canton, Ohio	135,670	148,010	829,740	757,105
Cedar Rapids, Iowa	135,000	270,000	1,020,000	1,530,000
Chicago, Ill.	7,613,500	9,538,300	40,273,050	44,859,200
Cincinnati, Ohio	940,635	1,081,395	4,667,664	4,988,770
Cleveland, Ohio	2,378,510	3,123,545	18,226,879	14,689,365
Columbus, Ohio	410,370	625,650	2,544,860	3,220,855
Des Moines, Iowa	150,252	193,475	893,115	1,143,660
Detroit, Mich.	2,669,265	2,639,745	13,045,560	16,566,995
Evansville, Ind.	53,777	133,159	924,379	818,169
Grand Rapids, Mich.	216,908	203,227	1,340,099	2,306,363
Indianapolis, Ind.	526,299	814,238	3,260,746	4,956,405
Kansas City, Kan.	72,531	125,893	540,791	611,120
Kansas City, Mo.	752,245	1,632,700	4,916,435	6,380,230
Milwaukee, Wis.	838,841	899,989	4,756,860	5,510,777
Minneapolis, Minn.	1,350,535	1,604,195	7,725,895	9,773,595
Oak Park, Ill.	343,980	325,700	947,885	1,281,400
Omaha, Neb.	594,590	404,025	2,654,430	2,866,693
St. Louis, Mo.	1,465,695	1,374,798	6,454,703	7,818,052
St. Paul, Minn.	1,169,946	1,987,250	5,628,552	7,918,688
Toledo, Ohio	762,845	881,113	4,030,204	3,843,638
Youngstown, Ohio	433,080	333,720	1,450,572	1,521,021
Totals	$23,331,374	$29,470,452	$122,732,674	$145,335,121

WESTERN STATES

	Month of June		First Six Months of Year	
	1915	1914	1915	1914
Los Angeles, Calif.	$997,240	$2,100,451	$6,278,440	$9,788,820
Oakland, Calif.	395,474	451,231	2,382,748	2,438,505
Portland, Ore.	460,095	834,435	2,639,760	4,180,910
Salt Lake City, Utah	119,958	232,600	1,085,341	1,396,317
San Francisco, Calif.	891,007	1,308,882	6,566,267	20,677,625
Seattle, Wash.	631,045	1,163,165	3,274,110	5,883,855
Spokane, Wash.	231,305	83,025	704,871	545,662
Tacoma, Wash.	56,828	80,611	463,514	788,098
Totals	$3,782,952	$6,164,400	$23,395,051	$45,699,789

The Thompson Meter Co., manufacturer of the well-known Lambert water meter, celebrated on the afternoon of July 2, at its factory in Brooklyn, N. Y., the completion of meter No. 700,000. The chief feature of the celebration was the award of prizes in a guessing contest by the employees of the company. Two years ago, when the company completed its 600,000th meter, every employee of the company was allowed to guess as to the date and hour when meter No. 700,000 would be completed. It was announced that $700 would be awarded in prizes to those employees who made the nearest guesses to the actual time. The 700,000th meter was completed on June 17, and on the afternoon of July 2 the employees gathered in the company's offices where the sealed envelopes were opened, the guesses were read and tabulated, and the prizes were awarded to the winners. The central feature of the table in front of the audience was a massive silver loving cup filled with roses. This cup was presented to the company from its employees by a general subscription two years ago. The company will award $800 in prizes to those of its employees who make the nearest guesses to the date of the completion of the 800,000th meter by the company.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry.—This company has asked the Council for a franchise to alter and relocate its tracks on Washington St., Woburn. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

Massachusetts—Springfield St. Ry.—This company has petitioned the Council for a franchise to construct a line along Page Blvd to East St. in Chicopee. R. W. Reynolds, Springfield, is Mgr.

Connecticut—Connecticut Co.—A petition has been presented to the Council of New Britain asking for a franchise to extend its lines from Main to Myrtle St., Grove, Board, Washington St. and Commonwealth Ave. to a point 100 ft. beyond Farmington Ave. F. L. Beardsley, New Britain, is Supt.

New York—Rochester Connecting R.R.—This company has applied to the Public Service Commission for permission to construct a railway from Rochester to Niagara Falls. The directors include Frank A. Dudley, Alfred W. Gray, Albert H. Merritt, Alexander J. Porter and Ronald G. Wright, Niagara Falls; Charles Hickey, Lockport; Sanford T. Church, Albion; C. Loomis Allen, Syracuse, and E. G. Connette, Buffalo.

New York—Third Ave. Ry.—The extension of this company's line from its present terminus on the Queensboro Bridge Plaza through Astoria to Casino Beach (Borough of Queens), is under consideration by the Long Island City Business Men's Association.

New Jersey—The Board of City Commissioners, Jersey City, has directed Fred Dunham, City Engr., to prepare tentative plans and estimates for the construction of the proposed connecting railroad in the lower city section and other districts, operative in conjunction with the Pennsylvania, Erie and Jersey Central railroads. By recent State law, the city is authorized to expend $2,000,000 on the project. Noted Apr. 22.

Pennsylvania—Farrell & Mercer Ry.—This company has been granted a franchise by the City Council to construct and operate an electric railway in Mercer, Penn. This is part of a proposed railway to connect Farrell, Mercer and New Castle.

Virginia—Lynchburg Traction & Light Co.—The City Council of Lynchburg has granted a franchise to this company to extend its line from the Fair Grounds to Fort Hill. J. W. Hancock, Lynchburg, is Gen. Mgr. and Pur. Agt. Noted June 3.

Virginia—Norfolk, Washington & New York Ry.—This company is securing the right-of-way for the construction of its proposed railway from Riverside, Va., to Sheperd's, D. C. Channing M. Ward, Richmond, is Pres.

Virginia—Petersburg & James River Ry. Corporation—This company plans to construct an electric railway from Petersburg to Hopewell, Va. J. Walter Long, Washington, D. C., is Pres.

West Virginia—According to press reports the Pennsylvania Electric & Lighting Co., Valley Falls, is interested in the construction of an electric railway from Wheeling, W. Va., to Baltimore, Md.

West Virginia—George W. Curtin is interested in the construction of a railway to connect Charleston and Summerville, W. Va., about 42 miles.

West Virginia—Virginian Ry.—Preliminary arrangements are being made by this company for the construction of a branch line from Bluefield, W. Va., through the coal fields in Buchanan and Dickenson Counties, Va., about 80 miles. H. Fernstrom, Norfolk, is Ch. Engr. Noted June 17.

Georgia—Americus, Flint River & Gains R.R.—This company has been granted a franchise to construct and operate a railway in Americus, Ga. This is part of a proposed line which will connect Byromville and Americus. Noted Mar. 11.

Florida—G. C. Rogan and M. F. Hetherington are interested in a project to construct a railway in Lakeland.

✚**Kentucky**—Cumberland & Manchester R.R.—This company has awarded the contract for the construction of six miles of its line from Barbourville to Manchester to T. V. VERMILION & SON, Barbourville. Noted June 10.

Kentucky—Bids will be received until Aug. 2 by the City Commissioners of Newport for a franchise to construct an electric railway.

Ohio—Toledo, Bowling Green & Southern Traction Co.—Plans are being considered by this company for the extension of its line from Findlay to Kenton. C. F. Smith, Findlay, is Gen. Mgr. and Pur. Agt.

Indiana—Terre Haute, Indianapolis & Eastern Traction Co.—The citizens of Newcastle, Ind., have petitioned this company to extend its lines from Terre Haute to Newcastle. T. F. Grover, Terre Haute, is Gen. Mgr.

Wisconsin—Ettrick & Northern R.R.—This company has been organized to construct a railway from Ettrick to Blair, Wis., about 14 miles.

Kansas—Southwestern Interurban Ry.—This company is considering plans for the extension of its line from Winfield to the Albright Gardens near Oxford, thence through Mulvane to Wichita where it will connect with other interurban lines. S. M. Bradley, Winfield, is Ch. Engr.

Arkansas—Ozark Southern Ry.—Arrangements are being made by this company for the construction of a railway from Harrison to Jasper and Parthenon, Ark., about 20 miles. G. W. T. Shaw, Lee Center, Ill., is Consult. Engr. Noted June 17.

Texas—According to press reports the properties of the Texas Traction Co. and the Southern Traction Co. will be consolidated and the electric railway which runs from Dallas to Waco will be extended to San Antonio, about 185 miles.

Texas—Missouri, Kansas & Texas Ry.—At a recent meeting of the Board of Directors of this company plans were adopted for the improvement and extension of its lines in Texas to cost about $300,000. L. F. Lonnbladh, Dallas, is Ch. Engr.

Texas—St. Louis, Brownsville & Mexico Ry.—Plans are being considered by this company for the construction of a branch line from Edinburg to Falfurrias, Tex., about 70 miles. J. S. Pyeatt, Houston, is Mgr.

Colorado—Wolf Creek R.R.—This company has been incorporated to construct a railway from the Morgan-Wolf Creek divide to Pilot Knob to carry coal from the property of the Victor-American Co.

Arizona—Phœnix Ry.—This company has been granted a franchise to construct a double-track line on Fourth St. from Roosevelt to Washington St., and to extend the Monroe St. loop to Fourth St. Samuel H. Mitchell, Phœnix, is Gen. Mgr. and Pur. Agt. Noted May 6.

Oregon—The Silver Falls Timber Co., Portland, plans an expenditure of $400,000 for the construction of an extension to its logging railway.

✚**California**—CHADWICK & SYKES, San Francisco, has been awarded the contract for the construction of a branch railway to connect the Los Angeles Pressed Brick Works with the main line of the Atchison, Topeka & Santa Fé Ry., Richmond, Calif.

Saskatchewan—Regina Municipal Ry.—Plans are being prepared by this company for an expenditure of $10,000 for constructing extensions to its street railway lines in Regina. D. W. Houston, Regina, is Supt.

Hawaii—See item under "Federal Government Work, Marine Railway."

LIGHT, HEAT AND POWER

✚**Cranston, R. I.**—(Providence post office)—The State Board of Control and Supply, Providence, has awarded contracts for a central heating plant at the state institutions at Cranston, as follows: Building, F. H. LIBBEY CO., $26,465; steam piping, GENERAL FIRE EXTINGUISHER CO., $30,305; engines and generators, AMES IRON & ENGINE CO., $13,425; electrical work, WHITALL ELECTRICAL CO., $16,253; boilers, WICKS BOILER CO., $7772. Noted June 10.

★**Middletown, N. Y.**—Bids were received June 29 by the State Hospital Commission, Albany, for power house equipment, construction, additions and alterations of heating, plumbing and electrical work at the Middletown State Homeopathic Hospital, as follows: Construction, Arthur Casey, 536 Broadway, Albany, $4378; Peter Keeler Building Co., Albany, $6162; N. R. Valkenburgh, Middletown, $6556. Heating, Edward Joy Co., Syracuse, $99,320; Gillis & Geoghegan, New York, $104,435; R. T. Ford Co., Rochester, $108,893; Lynch & Woodward, 26 Beach St., Boston, $109,393; Peter Keeler Building Co., Albany, $111,222; Raisler Heating Co., 129 Amsterdam Ave., New York, $118,000; Walker & Chambers, 222 East 41st St., New York, $121,000; John W. Danforth Co., 72 Ellicott Sq., Buffalo, $122,300; James H. Merritt & Co., 48 Cliff St., New York, $122,962; Cleghorn Co., 54 Battery March St., Boston, Mass., $123,500; J. J. Horan & Co., Troy, $129,000. Plumbing, R. T. Ford Co., Rochester, $2087; Peter Keeler Building Co., Albany, $2100; John F. Knaupp, Troy, 2539; Edward Joy Co., Syracuse, $3200. Electrical work, Buffalo Electric Co., 555 Washington St., Buffalo, $3972; Isidor Fajans, 122 East 25th St., New York, $4073; Enterprise Electrical Co., Middletown, $4428; Edward Joy Co., Syracuse, $4500; Conduit-Miller Co., Inc., Syracuse, $4595; Peter Keeler Building Co., Albany, $4722; New York Construction Co., 1328 Broadway, New York, $4755; T. Frederick Jackson, 99 John St., New York, $4940.

Nutley, N. J.—At a recent special election the citizens approved a bond issue of $11,000, the proceeds of which will be used to install a new heating plant in the Park School. Noted June 10.

Kaplan, La.—A special tax assessment and bond issue for the purpose of constructing an electric-light plant and making improvements to the water-works system was voted on June 24.

Hindman, Ky.—An election will be held July 15 to vote on the question of issuing $200,000 in bonds for the purpose of building an electric-light and power plant. Dr. B. W. Duke, Hindman, is interested.

Jenkins, Ky.—It is reported that a franchise has been secured and arrangements completed for the installation of a municipal power plant.

Cleveland, Ohio—It is reported that the Kessler Co., Cleveland, will build a 45x50-ft. power house at 1000 Newburg Ave.

Cleveland, Ohio—Bids will be received until noon, July 16, by the Commissioner of Purchases and Supplies, Room 511, City Hall, for service switches for the municipal Light Department. F. W. Ballard, 1443 East Third St., is Comr. of Light and Heat Dept.

Kent, Ohio—(Official)—Bids will be received until noon, Aug. 2, by the Board of Trustees of the Kent State Normal School for heating and ventilating of an auditorium, library, gymnasium and office building, and the heating and ventilating of an agricultural and training school building. J. A. McDowell is Secy. of the Bd. George F. Hammond, 4220 Prospect Ave., Columbus, is Arch.

Painesville, Ohio—At an election held June 22, it was voted to issue $35,000 in bonds for the improvement of the municipal electric-light plant. H. Whitford Jones, Citizens Bldg., Cleveland, has prepared preliminary plans for the work. Noted June 3.

Indianapolis, Ind.—The Indianapolis Light & Heat Co. has secured a permit for an additon to its plant at 18th and Mill St. It will cost about $14,000. Thomas A. Wynne is Vice-Pres. and Treas.

Mt. Pleasant, Mich.—Bids will be received until noon, July 12, by Frederick L. Keeler, Secy., State Bd. of Education, Lansing, for heating and plumbing systems in the science building at the Central State Normal School, Mt. Pleasant. E. V. Arnold, Battle Creek, is Arch.

Fredericksburg, Iowa—At a recent election bonds were voted for the purpose of constructing an electric-light plant and water tower. Energy will be secured from the power plant at Clermont.

Minneapolis, Minn.—It is reported that the Minneapolis General Electric Co. will soon construct about 75 miles of new transmission lines. The estimated cost is $100,000. R. F. Pack is Gen. Mgr.

Netawaka, Kan.—An election will be held July 12 to vote for an issue of $10,000 in bonds for the installation of an electric-light system. A transmission line will probably be built from the municipal power plant at Holton.

Bartlett, Tex.—The Texas Power & Light Co., Dallas, has purchased the property of the Bartlett Electric Co., and has been granted a 50-year franchise by the City Council. The plant will be improved.

Dallas, Tex.—The Dallas Union Terminal Co. will build an electric-light, power and heating plant to supply the new Union Station and terminals now under construction. The estimated cost of the work is $60,000.

Denison, Tex.—Press reports state that the Texas Power & Light Co., Dallas, will build a hydro-electric plant on the Red River near Denison. It will cost between $400,000 and $500,000. Noted July 17, 1913.

Prescott, Ariz.—The Arizona Power Co. will build a second hydro-electric plant on Fossil Creek near Prescott. The new plant, with the original one, also on Fossil Creek, will supply power for various industries in Prescott and its vicinity. Energy will also be supplied to the Prescott Gas & Electric Co., a subsidiary of the Arizona Power Co. M. V. Watson is Mgr. Noted Apr. 8.

Ellensburg, Wash.—R. N. Bull, Ellensburg, has petitioned the Commissioners of Kittitas County for a 50-year franchise to build and maintain electric power and transmission lines along the highways of Kittitas County.

Langley, Wash.—H. E. Wood, Elec. Engr., Prince Rupert, B. C., is investigating the feasibility of establishing an electric-light and power plant to serve Langley and other towns in the vicinity.

Metaline Falls, Wash.—Hugh L. Cooper & Co., Consult. Engr., 101 Park Ave., New York, N. Y., has been engaged to investigate the possibilities of the "Z" Cañon water power site on the Pen d'Oreille River near Metaline Falls. D. R. Cooper is Engr.-in-Charge.

Eugene, Ore.—The City Council is considering tentative plans for the installation of a steam electric-generating plant as an auxiliary to the municipal plant. The present plant has two 700-kw. generators and it is proposed to add 1250 kw. to the capacity.

Prairie City, Ore.—It is reported that the Prairie City Light Co. will shortly begin work on its new power plant. The estimated cost is $50,000. A pipe line, three miles long, will carry water from the river to the power station.

Burbank, Calif.—The Board of City Trustees will soon ask bids for the construction of a municipal electric-light plant to cost about $25,000. Bonds for this purpose were recently voted. Noted June 24.

Corona, Calif.—The Board of City Trustees has appointed a committee to investigate the feasibility of establishing a municipal electric-light plant.

Santa Barbara, Calif.—The Santa Barbara Gas & Electric Co. will make improvements and additions to its gas plant at a cost of about $85,000. The work will be completed by Oct. 1.

Quebec, Que.—The Public Service Corporation of Quebec, Ltd., has been incorporated with a capital of $3,000,000 to acquire water rights and develop electric power for the cities of Quebec and Three Rivers. The incorporators include Charles H. Branchaud, Milton L. Hersey, Howard Murray, Thomas McDougall and Julian C. Smith, all of Montreal.

Leamington, Ont.—It is reported that the Town Council will at once engage an engineer to prepare plans for an electric-light plant and distribution system. The estimated cost is $25,000. B. M. Selkirk is Clk.

BRIDGES

Montpelier, Vt.—It is reported that the City Council has voted to issue $35,000 in bonds the proceeds of which will be used for the construction of a steel bridge on State St.

Boston, Mass.—(Official)—Bids will be received until noon, July 9, by Patrick O'Hearn, Act. Comr. of Pub. Wks., Room 602, City Hall Annex, for the construction of the Boston approach to the Spring St. Bridge, West Roxbury. Noted May 20.

Dedham, Mass.—(Official)—Bids will be received until noon, July 9, by John A. Hirsch, Chn. of Selectmen, Room 602, City Hall Annex, Boston, for the construction of the Dedham approach to the Spring St. Bridge. See preceding item.

Keyport, N. J.—The Board of Chosen Freeholders of Monmouth County, Freehold, has submitted plans to the War Department for its approval, of a drawbridge over Matawan Creek on the Keyport-South Amboy Rd. near Keyport. C. E. Close is Clk. Bd. of Freeholders. Noted May 13.

New Brunswick, N. J.—Bids will be received until 2:30 p.m., July 12, by the Board of Chosen Freeholders of Middlesex County for the construction of a reinforced-concrete bridge with a Strauss trunnion bascule span, over the South River on the South Amboy-New Brunswick Rd. A. B. Fox, Perth Amboy, is County Engr.

North Plainfield, N. J.—(Plainfield post office)—The contract for a bridge at Grove St. connecting North Plainfield and Plainfield has been awarded to ARTHUR E. SMITH, Plainfield, at $7373. Noted June 24.

Pine Brook, N. J.—(Official)—The date of receiving bids for rebuilding the bridge over the Passaic River at Pine Brook between Morris and Essex Counties has been extended from June 28 until 11 a.m., July 13. William E. King, Morristown, is Engr. of Morris County, and Frederick A. Reimer, Newark, is Engr. of Essex County. Noted June 17.

Greensburg, Penn.—The Commissioners of Moreland County have awarded the contract for a 100-ft. steel bridge over Big Sewickley Creek to RINEHART BROS., East Liverpool, Ohio, at $10,500. C. B. Parkinson is County Engr.

Harrisburg, Penn.—Press reports state that bids will be received until July 21 by the Commissioners of Dauphin County for the construction of a concrete bridge over the tracks of the Philadelphia & Reading Ry. at 19th St. It will have a 24-ft. roadway with a 6-ft. sidewalk on each side.

Harrisburg, Penn.—The property owners of Allison Hill, a suburb of Harrisburg, are interested in a movement to build a bridge over the tracks of the Pennsylvania R.R. at Walnut St. A petition is being prepared, asking the City Commissioners to submit a bond issue of $300,000 for this purpose to the voters at the November election.

Mercer, Penn.—Bids will be received until July 19 by H. C. Comstock, Controller of Mercer County, Mercer, for the construction of eight bridges in various townships. Lewis E. Burnside, Grove City, is County Engr.

Norristown, Penn.—(Official)—Bids will be received until 11 a.m., July 9, by the Board of Commissioners of Montgomery County for the construction of three new bridges and the repair of two, in various townships. John N. Jacobs is County Controller.

Pittsburgh, Penn.—(Official)—Bids will be received until noon, July 16, by Hyatt M. Cribbs, Controller of Allegheny County, for bridge work, as follows: Construction of two reinforced-concrete elliptical arches in Richland and Moon Townships; extension of Arch-Bridge No. 1, Kilbuck Run, Glenfield Borough; diversion of Pine Creek, eliminating County Bridges 17 and 18 in Shaler Township. J. G. Chalfant, Room 308, Court House, is County Engr.

Surry C. H., Va.—(Official)—Bids will be received until noon, July 13, by the Clerk of the Circuit Court of Surry County for the construction of three steel bridges, one each over Judkins Run, College Run and the Blackwater River.

Moundsville, W. Va.—Bids will be received until July 22 by the Commissioners of Marshall County for the construction of either a concrete bridge, or a steel bridge with concrete abutments, across the mouth of Lynn Camp Run at Fish Creek in Meade District.

Marshall, N. C.—(Official)—The Commissioners of Madison County opened bids June 22 for the construction of a steel bridge, as follows: SOUTHERN BRIDGE CO., Birmingham, Ala., $16,842, (awarded contract); Nashville Bridge Co., $17,895; Virginia Bridge & Iron Co., $20,110; Vincennes Bridge Co., $19,113; Roanoke Bridge Co., $19,209. J. B. Clingman is County Engr.

Lexington, Ky.—The Fiscal Court of Fayette County is considering the construction of a new bridge across the Kentucky River between Fayette and Madison Counties. F. A. Bullock is County Judge.

Cincinnati, Ohio—(Official)—The Department of Public Service has awarded contracts for rebuilding and repairing bridges in Mt. Washington, and Bridges Nos. 1 and 2 on Crawford Ave. to THOMAS A. MURRAY, Cincinnati, at $2780, and RUNCK & BRO., Cincinnati, at $2460, respectively. Noted May 27 and June 3.

Cincinnati, Ohio—(Official)—The Board of Commissioners of Hamilton County has awarded the contract for the construction of a culvert in Cincinnati Ave., Miami Township, to the CLEARY-WHITE CONSTRUCTION CO., care of A. J. Brehm, Cincinnati, at $5452. Other bidders were: L. Eid Concrete Steel Co., $7001; Gordon Engineering Co., $6870; Welling & Franz, $7884; R. C. Baksley, $6742; John Ruebel Contracting Co., $7341; William Nickoson, $6360; M. Hanlon, $7714; J. J. Foley, $5471. Noted June 10.

Cleveland, Ohio—Bids will be received until noon, July 19, by the Commissioner of Purchases and Supplies, Room 511, City Hall, for the construction of two concrete culverts on the Woodland Hills-Garfield Blvd., and for iron fencing at the East 93rd St. bath house and Brookside Park.

Hamilton, Ohio—The Board of Commissioners of Butler County has awarded the contract for the construction of the new Columbia Bridge over the Great Miami River at Wood St. to the A. J. YAWGER CO., Indianapolis, Ind., at $96,000. Noted May 20.

Youngstown, Ohio—(Official)—Bids will be received until 10 a.m., July 21, by the Board of Commissioners of Mahoning County for the construction of a bridge in Green Township. Frank H. Vogan is Clk. of Comrs.

Brazil, Ind.—The Board of Commissioners of Clay County has petitioned the County Council for an appropriation to build six reinforced-concrete bridges to cost from $800 to $2000 each. W. O. Graeser is County Audr. George Sheehan is County Surv.

Indianapolis, Ind.—It is reported that the Board of Public Works and the Commissioners of Marion County will coöperate in the construction of two additional spans for the West Washington St. Bridge over the White River, which is now under construction. The estimated cost of the two spans is $110,000. Noted July 23, 1914.

Richmond, Ind.—It is reported that the Commissioners of Wayne County will soon ask bids for the construction of a double-arch concrete bridge across the Whitewater River connecting North 12th St. and Middleboro Pike. It will cost about $15,000.

Richmond, Ind.—The County Engineer is preparing plans for the construction of new bridges at South G and South E St., Richmond. The G St. Bridge will be 725 ft. long, and is estimated to cost $167,475. The E St. Bridge will be 600 ft. long, and will cost about $141,000.

Annawan, Ill.—(Official)—Bids will be received until 2:30 p.m., July 15, by the Town Commissioners of Highways for steel joists and oak floors on existing steel bridge, 120-ft. span and 14-ft. roadway. James H. Reed, Cambridge, is Supt. of Highways of Henry County.

Webster City, Iowa—It is reported that bids will be received in July for the construction of concrete bridges and culverts to cost about $35,000. F. H. Austin is Engr. C. Peterson is Audr. of Hamilton County. Noted June 10.

Austin, Minn.—(Official)—Bids will be received until 4 p.m., July 12, by O. J. Simmons, Audr. of Mower County, for the construction of one 50-ft. and one 40-ft. through-girder bridge to be built in the Towns of Windom and Red Rock.

St. James, Minn.—Bids will be received until July 19 by John C. Jensen, Audr. of Watonwan County, for the construction of steel and reinforced-concrete bridges. The estimated cost is $20,000. J. H. A. Bratz, 312 Commercial Bldg., St. Paul, is Engr.

Girard, Kan.—Plans have been submitted for the approval of the Attorney General, Topeka, for steel and reinforced-concrete bridges to cost about $15,000. W. E. Robson is Engr. of Crawford County. C. E. Everett is County Clk.

Great Bend, Kan.—The Board of Commissioners of Barton County has adopted a resolution to appropriate $20,000 for the construction of a concrete bridge across the Arkansas River south of Ellinwood.

Holton, Kan.—(Official)—Bids will be received until July 15 by the Commissioners of Jackson County for the construction of one 50-, one 60- and one 70-ft. bridge. This is a postponement of bids first advertised for June 25. W. H. Webster is County Clk. Noted June 17.

Kansas City, Kan.—It is reported that the Commissioners of Wyandotte County will ask bids in about 30 days for the construction of the Central Ave. Viaduct over the Kaw River. The present double-deck structure will be replaced by a single-deck bridge with a 27-ft. roadway and double car tracks. The estimated cost of the bridge and its approaches is $450,000. The total length will be about 2200 ft. R. L. McAlpine is County Engr. Noted May 27.

Topeka, Kan.—Press reports state that bids will be asked at once for the construction of a three-span reinforced-concrete bridge over Shunganunga Creek on Kansas Ave. It will cost approximately $18,000 of which the Topeka Ry. Co. will pay a part. W. G. Tandy is Bridge Comr. Noted Jan. 7.

Topeka, Kan.—Plans are being prepared by the city for a three-span reinforced-concrete bridge across Shunganunga Creek on Lincoln St. Bids for its construction will probably be asked in the fall. J. E. House is Mayor.

Wellington, Kan.—A contract for the construction of two reinforced-concrete bridges has been awarded to the TOPEKA BRIDGE & IRON CO., Topeka, at $5470.

Watertown, S. D.—Bids will be received until 4 p.m., July 20, by the Board of Commissioners of Codington County for the construction of three steel bridges. M. A. Hockman is County Bridge Supvr.

Williston, N. D.—Bids will be received until 1:30 p.m., July 15, by the Commissioners of Williams County for bridge construction for a period of one year from date of contract. M. H. Aaen is County Audr.

Carrollton, Mo.—A special election will soon be held in Carroll County to vote on the question of issuing $200,000 in bonds the proceeds of which will be used for the construction of bridges.

Kansas City, Mo.—It is reported that bids are being received by the Commissioners of Jackson County for the construction of a concrete viaduct over the tracks of the Chicago & Alton R.R. at 15th St. The estimated cost is $35,000, of which the railway will pay 60%. Allen C. Southern is County Engr.

St. Louis, Mo.—Bids were received by the Board of Public Service on June 29 for about 24,000 tons of structural steel for the Illinois approach of the Municipal Bridge as follows, per pound: Fort Pitt Bridge Works, 2.35c.; American Bridge Co., 2.165c. (probably awarded contract); Pennsylvania Steel Co., 2.25c.; Cambria Steel Co., 2.175c.; King Bridge Co., 2.45c.; McClintic-Marshall Co., 2.445c.; Phœnix Bridge Co., 2.59c. Noted June 17.

Dallas, Tex.—(Official)—Plans are not yet completed for the construction of a 900-ft. bridge across the Trinity River at Commerce St., Dallas. The estimated cost is $135,000. J. F. Witt is County Engr. Noted June 24 and July 1.

✚**Dallas, Tex.**—The Commissioners Court of Dallas County has awarded the contract for completing the Trinity Heights Bridge to the MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan. The original contract for this work was awarded to Hess & Skinner which has given it up.

Hempstead, Tex.—The Business League of Hempstead is promoting a plan to rebuild the bridge across the Brazos River. The estimated cost of the work is from $30,000 to $42,000.

✚**Rockport, Tex.**—A contract for building the Bayside Bridge over Puerto Bay, to connect Aransas and Refugio Counties, has been awarded to the ALAMO CONSTRUCTION CO., San Antonio, at $19,400. Noted Feb. 18.

Tecumseh, Okla.—Bids will be received until 3 p.m., July 21, by the Commissioners of Pottawatomie County for bridge construction as follows: One steel bridge across the North Canadian River at Beard St., Tecumseh; one 24-ft. bridge; four 30-ft. bridges and eight 50-ft. bridges, all to be of steel with 16-ft. roadways. J. Krouch is Chn. of Comrs. R. C. Green is Clk.

Seattle, Wash.—Bids will be received until 11 p.m., July 20, by the Commissioners of King County for the construction of the Duwamish Bridge. The estimated cost is $30,000. Byron Phelps is Clk. of Comrs. A. P. Denton is County Engr.

Tillamook, Ore.—The City Council has approved plans prepared by the City Engineer for a new bridge across Hoquarton Slough. Noted Mar. 18.

Los Angeles, Calif.—The city and Los Angeles County have appointed a committee to promote the construction of a reinforced-concrete viaduct from Mission Rd. to the Plaza. The estimated cost is $750,000. R. W. Kelly, Chn., L. R. Alderman, M. A. Marcotte, J. W. Seras and George Archer form the Com. in-Charge.

★✚**Needles, Calif.**—It is reported that the contract for the interstate bridge across the Colorado River at Topock, Ariz., has been awarded to the KANSAS CITY STRUCTURAL STEEL CO., Kansas City, Mo. List of bidders noted July 1.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 19, by the State Highway Commission, Forum Bldg., for the construction of five reinforced-concrete bridges in Shasta County, and a 532-ft. bridge across the Sacramento River near Dunsmuir, Siskiyou County.

★**San Francisco, Calif.**—Bids were received June 23 by the Board of Public Works for the construction of a Strauss trunnion bascule bridge over the Channel St. waterway, (a) substructure; (b) superstructure; (c) bridge complete. The bidders were: A. H. Scherzer Rolling Lift Bridge Co., (b) $48,628; F. Rolandi, (a) $67,000, (c) $117,000; Tibbitts Pacific Co., (a) $46,877, (b) $48,500, (c) $92,877; MacArthur Bros. Co., (a) $59,130, (c) $106,421; Pacific Rolling Mill Co., (b) $43,900; Thomson Bridge Co., (a) $37,147, (b) $47,140, (c) $84,287; Dyer Bros., (b) $45,000; Lindgren Co., (a) $58,880; (b) $50,500; (c) $107,700; W. E. Dawson, (a) $55,993; Ross Construction Co., (b) $48,783; Healy Tibbitts Construction Co., (a) $45,217, (b) $50,824, (c) $94,421; California Construction Co., (b) $43,700; (c) $102,833. Noted June 10.

✚**San Francisco, Calif.**—(Official)—The Board of Public Works has awarded the contract for the construction of the Channel St. Bridge to the THOMSON BRIDGE CO., 103 Main St., San Francisco, at $84,287 for the complete structure.

✚**Santa Barbara, Calif.**—The City Trustees have awarded the contract for the construction of a reinforced-concrete bridge over Mission Creek to the BOARDMAN CONSTRUCTION CO., Story Bldg., Los Angeles, at $6760. Noted June 17.

✚**Scotia, Calif.**—The Board of Supervisors of Humboldt County, Eureka, has awarded the contract for the construction of a 650-ft. steel bridge across the Eel River to the MERCER-FRASER CO., Eureka, at $55,160. A. J. Logan is County Engr.

✚**Brantford, Ont.**—(Official)—The County Council of Brant County has awarded contracts for the construction of abutments and steel superstructures of two 60-ft. bridges to GEORGE THOMPSON, Brantford, at $3000, and the HAMILTON BRIDGE CO., Hamilton, at $2687 respectively.

Locust Hill, Ont.—Plans have been prepared by E. A. James, 57 Adelaide St., E., Toronto, for a high level bridge over the Little Rouge River. The estimated cost is $18,000 for reinforced-concrete or $20,000 for a steel bridge.

✚**Vancouver, B. C.**—The City Council has awarded contracts for the repair of the Connaught Bridge to COUGHLAN & SONS, Vancouver, for furnishing the steel and to the COAST CONTRACTING CO., 16 Hastings St., E., Vancouver, for dismantling and erection. The city will supply rails, and furnish and lay wood block pavement. List of bidders noted June 24.

WATER SUPPLY—IRRIGATION

Athol, Mass.—(Official)—We have been advised that the city will not build the proposed 3,000,000-gal. reservoir this year. Herbert L. Hapgood is Supt. Water Dept. Noted July 1.

Pittsfield, Mass.—An appropriation of $40,000 has been made. The proceeds will be used for the construction of additional filter beds. An appropriation of $6500 has also been made for the construction of a water main to Cottsville.

Warren, Mass.—The citizens at a recent meeting voted in favor of constructing a water system at an estimated cost of $100,000. Joseph S. Hastings is one of the Commissioners. Noted Mar. 4 and Apr. 29.

★**Binghamton, N. Y.**—(Official)—Bids will be received until 10 a.m., July 23, by the Board of Water Commissioners for constructing a 750,000-gal. covered reservoir. John D. Davidson is Secy. Bd. of Water Comrs.

★**Hilton, N. Y.**—(Official)—Bids will be received until noon, July 16, by the Village Trustees for constructing a water system. C. P. Cooper is Clk. and H. C. Kittredge, Rochester, is Engr. Noted June 10 and 17.

Ilion, N. Y.—Bids will be received until July 9 by the Board of Water Commissioners for furnishing about 3½ miles of 10-in. c.-i. water mains and for constructing a concrete diverting dam, intake chamber and gate house. George R. Russell is Secy. Noted May 6 and June 17.

✚✚**New York, N. Y.**—(Official)—The contract has been awarded to the GUARANTEE CONSTRUCTION CO., 149 Cedar St., New York, at $21,480, for constructing a coagulant plant in Mt. Pleasant under Contract No. 159. Noted June 10 and July 1.

✚**New York, N. Y.**—(Official)—The contract has been awarded to the CONCORD CONSTRUCTION CO., 25 Park Row, New York, at $22,565, for furnishing and installing bronze or steel ladders and nozzles and ladders. Noted June 10 and July 1.

★**Totowa, N. J.**—(Paterson post office)—(Official)—Bids will be received until 8:15 p.m., July 19, by Walter R. Hudson, Mayor, and Borough Council, for constructing a water-works distributing system. Linden Redman is Borough Clk. Noted Feb. 11.

Wenonah, N. J.—Improvements will be made to the water system at an estimated cost of $8000.

★**Woodbury, N. J.**—(Official)—Bids will be received until 8 p.m., July 27, by Arthur Starr, City Clk., for making addition to the brick pumping station, and furnishing and installing water tube boilers, high service pumping machinery and a brick chimney.

Connellsville, Penn.—(Official)—The filter plant of the Connellsville Water Co. will be remodeled. Plans have been approved by the State Department of Health.

Honesdale, Penn.—(Official)—Plans have been approved by the Department of Health for the extension of the distributing system of the Honesdale Water Co.

Jersey Shore, Penn.—(Official)—The State Department of Health has approved plans of the Jersey Shore Water Co. for the construction of a rapid sand filtration plant.

Langhorne, Penn.—(Official)—The Langhorne Spring Water Co. has had plans approved by the State Department of Health for the construction of a rapid sand filtration plant.

Linesville, Penn.—(Official)—Extensions will be made to the distributing system of the Bunday Water Co. Plans have been approved by the State Department of Health.

Mt. Carmel, Penn.—(Official)—Extensions will be made to the distributing system of the Bear Gap Water Co. Plans have been approved by the State Department of Health.

Morrisville, Penn.—The Borough Council will soon call a special election to vote on the question of issuing $20,000 in bonds, the proceeds of which will be used for the construction of a filtration plant. Noted June 10.

Oil City, Penn.—(Official)—Extensions will be made to the distributing system, plans for which have been approved by the State Department of Health.

Stroudsburg, Penn.—(Official)—The Stroudsburg Water Supply Co. has had plans approved by the State Department of Health for the construction of a temporary disinfection apparatus.

★**Clayton, Del.**—(Official)—Bids will be received until 8 p.m., July 15, by the Town Council for the construction of water and sewer systems and a disposal plant. W. R. Clements is Secy. Council.

Dover, Del.—According to press reports the Frederica Water & Ice Co. has been incorporated with $25,000 capital. The company will construct a water system and an ice plant. Fremont W. Frankhouser, Reading, Penn., is interested.

✚**Milton, Del.**—The contract has been awarded to WILLIAM CONFELL, Milton, at $18,500, for constructing a water system. Noted May 6.

★**Baltimore, Md.**—(Official)—Bids will be received until 11 a.m., July 14, by the Board of Awards for furnishing and erecting a 20,000,000-gal. centrifugal pump and electric power equipment for the Eastern pumping station. Robert L. Clemmitt is Act. Water Engr. Noted June 24.

Wheeling, W. Va.—The City Council has received a report from C. C. Smith and C. B. Cooke, City Engr., estimating the cost of installing a water well filtration system at $189,350, and of 102 wells in place $45,437. Noted June 10.

✚**White Sulphur Springs, W. Va.**—The contract has been awarded to W. E. CARTER, Richmond, Va., at $8245, for constructing water and sewer systems. Noted Apr. 1.

Leesburg, Ga.—The city will lay about 3½ miles of 6- and 8-in. water mains and construct two wells with a 50,000-gal. tank. W. F. King is City Clk. Noted June 17.

Nicholls, Ga.—According to press reports W. Byck, Waycross, has been granted a franchise by the City Council for the construction of a water system and electric-light plant.

Tennille, Ga.—Plans are being prepared by Crook M. Kanneau, Macon, for the construction of water, sewer and electric-light systems.

Ft. Meade, Fla.—All bids received June 15 for the purchase of $58,000 in bonds, part of which was to have been used for the construction of a water system, have been rejected. New bids will soon be received in connection with bids for the construction of a water system. Noted June 3.

Ashland, Ala.—The city will construct a water system. About four miles of 4-, 6- and 8-in. c.-i. pipe and 150,000-gal. reservoir will be required. H. L. Adair is Mayor and Edgar B. Kay, Tuscaloosa, is Engr.

Clarksdale, Miss.—Bonds for $150,000 have been voted. Part of the proceeds will be used for the extension of the water system. Noted May 27.

Kosciusko, Miss.—Bonds for $30,000 have been voted by the citizens, the proceeds will be used for the construction of water and electric-light systems.

Bogalusa, La.—An election will probably be held to vote on the question of issuing $200,000 in bonds, part of the proceeds of which will be used for the purchase and improvement of the water system.

✚**Cleveland, Ohio**—The contract has been awarded to SANFORD RILEY STOKER CO., Ltd., Worcester, Mass., at $19,000, by the Board of Control for installing stokers for the Division Ave. pumping station.

★**Paris, Ill.**—(Official)—Bids will be received until 10 a.m., July 22, by the City Council for constructing a rapid sand filter plant at the water-works. Simon Risser is Comr. of Pub. Property.

Kenosha, Wis.—All bids received June 14 for constructing 10,000 ft. of 42-in. c.-i. water intake main, have been rejected. Noted May 27 and June 24.

Grinnell, Iowa—(Official)—Bids will be received until 2 p.m., July 17, by A. C. Harriman, City Clk., for making extensions to the water system. Charles P. Chase, Clinton, is Engr.

Keota, Iowa—(Official)—Bids will be received until 2 p.m., July 20, by the Council for constructing a water system. Charles P. Chase, Clinton, is Engr.

Riverside, Iowa—(Official)—Bids will be received until 3 p.m., July 15, by the Council for constructing a water system. Charles P. Chase, Clinton, is Engr.

Sabetha, Kan.—(Official)—The citizens defeated the bond election for $65,000, the proceeds of which was to have been used for the construction of a water system. Noted June 17.

Omaha, Neb.—The construction of a 24-in. pipe line from 36th to 48th St. will be recommended to the Board of Works by W. Howell, Mgr. Water-Wks.

✚**Eureka, Mont.**—The contract has been awarded to BOOMER & HUGHES, Spokane, Wash., at about $100,000 for constructing canals for the Glen Lake irrigation project.

Kirksville, Mo.—The city will not hold an election to vote on the question of issuing $70,000 in bonds, the proceeds of which was to have been used for the rebuilding of the water system. Noted June 24.

St Louis, Mo.—Bids will be received until July 9 by E. R. Kinsey, Pres., Bd. of Pub. Ser., for installing two 350-hp. Heine type boilers at the high service pumping station No. 2, Bissell's Point.

St. Louis, Mo.—An appropriation of $430,000 will probably be made by the Board of Public Service for the rebuilding of the Compton Hill reservoir.

St. Louis, Mo.—Bids have been received for furnishing 2595 tons of c.-i. water pipe from the American Cast Iron Pipe Co., at $60,693, and the United States Cast Iron Pipe Co., $59.525.

Benton, Ark.—(Official)—Bids will be received until 10 a.m., July 15, by the Commissioners of Water-Works Improvement District No. 1 and Sewer Improvement District No. 1 for constructing water and sewer systems. Plans are on file with the J. B. McCrary Co., Atlanta, Ga. and Little Rock, Ark.

✚**Harrison, Ark.**—(Official)—The contract has been awarded to SQUIRE ELECTRIC & CONSTRUCTION CO., Kansas City, Mo., $43,500, for constructing a water system. Noted Apr. 22 and June 3.

Malvern, Ark.—Bids will be received until July 15 by G. E. Matterson, Secy. Improv. Dist., for constructing a water system. W. L. Collie is City Recdr. The estimated cost is $90,000. Noted Mar. 25.

Mineral Wells, Tex.—An election will be held to vote on the question of issuing $74,000 in bonds, the proceeds of which will be used for the construction of a water system and for the purchase of Lake Pinto.

Moody, Tex.—The water-works owned by Cormany Bros., which was recently destroyed by fire, will be rebuilt at an estimated cost of $15,000.

Chandler, Okla.—Bonds for $5000 have been voted by the citizens, the proceeds of which will be used for the improvement of the water system, according to press reports. A. B. Oleson is Mayor. Noted Apr. 22.

Jones, Okla.—(Official)—An election will be held to vote on the question of issuing bonds for the construction of water and electric-light systems. The Benham Engineering Co., Colcord Bldg., Oklahoma City, is Engr.

Wellston, Okla.—(Official)—The Benham Engineering Co., Oklahoma, has been retained by the Board of Trustees to prepare plans for the construction of a water system. The estimated cost is about $20,000.

Logan, Utah—Bids are being received, according to press reports, for the construction of a five-mile 22-in. pipe line and for a 1,000,000-gal. reservoir.

Seattle, Wash.—Plans have been approved by L. B. Young, Chn., Bd. of Pub. Wks., for the construction of water mains in 37th Ave., N. E. The estimated cost is $12,000.

West Lynn, Ore.—Bids will be received until 2 p.m., July 20, by L. L. Porter, Secy., West Lynn Water Comn., for constructing a water system.

Weaverville, Calif.—A flume 2½ miles long will be constructed by the Corona de Ore Mining Co. to carry water to its mine at Hawkins Bar on the Lower Trinity. The estimated cost is $25,000.

Bathurst, N. B.—Bids will be received until July 10 by the Water and Sewerage Committee for constructing water and sewer systems complete.

Montreal, Que.—Bids will be received until noon, July 20, by L. M. Senecal, Secy., Bd. of Comrs., City Hall, for furnishing and installing underground cables at the filtration plant.

Unionville, Ont.—Plans are being prepared by James Houdon and Hertzburg, 79 Adelaide St., East Toronto, for the construction of a water system. The estimated cost is $25,000.

The Narrows, Man.—According to press reports an election will be held to vote on the question of issuing $80,000 in bonds, the proceeds of which will be used for the construction of water and sewer systems.

SEWERS

✚**Augusta, Maine**—The contract has been awarded to E. PAYSON WITHAM, at $4008, for the construction of the Hayden Brook Sewer.

South Manchester, Vt.—The city contemplates the construction of a sewer system.

✚**Boston, Mass.**—The contract for the construction of sewers in Temple and other streets has been awarded to ANTONY CEFALO, at $70,525. Other bids were: Anthony Baruffaldi, $72,457; West Roxbury Trap Rock Co., $76,429; Merrimack Construction Co., $79,250; William Barrett & Co., $82,562; McCarthy & Walsh, $82,807; Bruno & Petitti, $83,612; Coleman Bros., $88,661; Michael Meehan, $70,358. Noted June 10.

Boston, Mass.—Bids will be received until noon, July 9, by Patrick O'Hearn, Act. Comr. of Pub. Wks., for the construction of sewers and drains in Buckminster St., Brighton, Cabot St., Roxbury, and in Kittredge St., West Roxbury.

✚**Boston, Mass.**—The contract for the construction of the Mattapan Brook sewer, Dorchester, has been awarded to the WEST ROXBURY TRAP ROCK CO., at $24,428. Noted June 10.

Albany, N. Y.—An ordinance has been approved by J. W. Stevens, Mayor, for the construction of a system of sewers to stop the pollution of the Tivoli Lakes. I. Wachsman is Secy., Bd. of Contract and Supply.

Kenmore, N. Y.—The contract will be awarded about Aug. 1 for the construction of 10,193 ft. 12- to 60-in. of circular sewers. The estimated cost is $20,000. Noted May 20.

✚**New York, N. Y.**—(Borough of Bronx)—(Official)—The contract for the construction of sewers and appurtenances in Tyndall Ave. and for improving the roads in Mosholu Ave. has been awarded to the SPADARO CONTRACTING CO., at $30,461. Noted July 1.

Patchogue, N. Y.—Plans are being prepared by Clyde Potts, 30 Church St., New York, N. Y., for the construction of a sewage-disposal plant and approximately 14 miles of sewers.

✚**Rochester, N. Y.**—The Board of Contract and Supply has awarded the contract for the construction of sewers in Hollenbeck and other streets to JOHN PETROSSI CO., at $67,367. Noted Apr. 15.

Camden, N. J.—Bids will be received until 8 p.m., July 19, by the Committee on Streets and Highways, for the construction of sewers in Chelton, Langham, Empire and Wildwood Ave. and in Sixth, Carman and Fairview St. A. B. Sparks is Chn.

✚**Irvington, N. J.**—The contract for the construction of 72-in. sewers in Ball and Cottage St. has been awarded to JOHN DORER, at $18,986.

Maywood, N. J.—Bids will be received until July 26 by the Borough Council for the construction of a sanitary sewer system. Noted June 24.

Newark, N. J.—Bids will be received until Aug. 31 by the Passaic Valley Sewerage Commissioners for the construction of the superstructure of the Meadows pumping station. The estimated cost is from $300,000 to $500,000.

Newark, N. J.—The Board of Freeholders contemplates the construction of a sewage-disposal plant at the Overbrook Hospital for the Insane. The estimated cost is $35,000. Frederic A. Reimer is County Engr.

Perth Amboy, N. J.—The Board of Aldermen contemplates the construction of a sewer system in the northern section of the city.

Freeport, Penn.—(Official)—The State Department of Health has approved plans for the construction of sewage treatment works.

Greenville, Penn.—(Official)—The State Department of Health has approved plans for the relocation of the sewage treatment works.

North East, Penn.—(Official)—The State Department of Health has approved plans for the construction of sewage treatment works.

Washington, Penn.—(Official)—The State Department of Health has approved plans for the construction of lateral sewer extensions.

✚**Wilkes-Barre, Penn.**—The contract for the construction of sewers has been awarded to MICHAEL J. MALLORY, Sugar Notch, at $6006.

★**Clayton, Del.**—(Official)—See item under "Water Supply-Irrigation."

Baltimore, Md.—Bids will be received until 11 a.m., July 21, by Charles England, Chn. Sewerage Comn., for the construction of Section No. 1 of the Jenkins Run Trunk Drain, Storm Water Contract No. 45.

Rockville, Md.—The County Commissioners contemplate the construction of a sewer system in the section drained by Little Falls Brook, including Chevy Chase, Hills, Somerset, Friendship Heights, Bethesda, Edgewood, Woodmont and other subdivisions. The estimated cost is $83,000.

✚**Richmond, Va.**—The contract for the construction of the Canepa St. sewer has been awarded to A. W. MAYNARD, at $14,000.

Mannington, W. Va.—The city contemplates the construction of approximately two miles of sewers. C. C. Smith, 508 Board of Trade Bldg., Wheeling, is Engr.

White Sulphur Spring, W. Va.—See item under "Water supply—Irrigation."

Boston, Ga.—Plans are being prepared by W. Hopson Goodloe, Engr., Macon, for the construction of a sewer system.

✚**Richland, Ga.**—The contract for the construction of approximately 4½ miles of sewers has been awarded to the J. B. McCRARY CO., Atlanta. The estimated cost is $15,000. Noted Apr. 8.

Tennille, Ga.—See item under "Water Supply-Irrigation."

Marianna, Fla.—At a recent election the citizens voted to issue $18,000 in bonds. The proceeds will be used for the construction of sewers.

Miami, Fla.—An election will be held Aug. 19 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of sewers. B. H. Klyce is City Engr.

Cloverdale, Ala.—Bids will be received until July 27 by W. R. McDade, Clk., for the construction of storm and sanitary sewers.

Clarksdale, Miss.—At a recent election the citizens voted to issue $150,000 in bonds. The proceeds will be used for extending the sewer system.

Meridian, Miss.—An election will be held July 23 to vote on the question of issuing $25,000 in bonds. Part of the proceeds will be used for the construction of extensions to the sanitary sewer system. Noted Mar. 18.

Bogalusa, La.—The city contemplates holding an election to vote on the question of issuing $200,000 in bonds. The proceeds will be used for the purchase of a sewer system.

✚New Orleans, La.—The contract for the construction of a sewer system at the new cotton warehouses has been awarded to L. M. DAHLGREN, at $15,936. Noted July 1.

✚Dayton, Ky.—The contract has been awarded to J. B. McLANE & CO., Newport, for the construction of sewers in various streets.

Paducah, Ky.—(Official)—Bids will be received until 10 a.m., Aug. 3, by the Commissioner of Public Works for the construction of the outfall sewer, District No. 3, Contract No. 1. Noted May 20.

Bedford, Ohio—Bids will be received until noon, July 19, by H. T. Hubbell, Clk., for the construction of sewers in various streets.

Canton, Ohio—Bids will be received until 10 a.m., July 21, by the Commissioners of Stark County for the construction of the Domer Ditch in Canton Township, open and tile work. C. L. Stoner is Clk.

Cincinnati, Ohio—All bids received June 18 for the construction of sewers in the Madisonville Sewer District, Contract No. 3, have been rejected. New bids will be received by Philip Fosdick, Dir. of Pub. Ser. Noted June 17.

Cincinnati, Ohio—Bids will be received until noon, July 16, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in East Third and Elmore St., in Hamilton, Bruce and Glenway Ave.

✚Cleveland, Ohio—(Official)—The contract for the construction of sewers in Sandusky Ave. has been awarded to the LAKE ERIE PAVING & CONSTRUCTION CO., at $17,697. Noted June 24.

✚Cleveland, Ohio—(Official)—The contract for the construction of sewers in West Third St. and Prospect Ave. has been awarded to WILLIAM LEHMANN, at $7121 and $8914, respectively. Noted June 17.

✚Columbus, Ohio—The contract for improving and constructing an addition to the sewage-disposal plant has been awarded to D. W. McGRATH & SON, Columbus, at $197,996. Noted June 3.

Portsmouth, Ohio—It is reported that G. S. Wilhelm, City Engr., is preparing plans for the construction of sewers in the Sunnyside District.

Brazil, Ind.—Bids will be received about July 20 by the Board of Public Works for the construction of a sanitary sewer in the West End, requiring approximately 2843 lin.ft. of 10-in. and 3801 lin.ft. of 8-in. vitrified pipe. F. C. Wilson is City Engr.

✚Indianapolis, Ind.—(Official)—The contract for the construction of the main drain in 38th St. and in Central Ave. has been awarded to the McLAUGHLIN CONTRACTING CO., Pittsburgh, Penn., at $143,732. Noted June 17.

✚Muncie, Ind.—(Official)—The contract for sewer construction has been awarded to WILLIAM M. BIRCH CO., Muncie. Noted July 1.

Saginaw, Mich.—Bids will be received about July 15 by the Commissioners of Saginaw County for the construction of two drains, one nine miles and the other seven miles.

Chicago, Ill.—Byrne Bros.' Dredging & Engineering Co., Chicago, at $195,583, submitted the lowest bid for the construction of the Calumet Intercepting Sewer, Contract No. 2.

✚Chicago, Ill.—The Board of Local Improvements has awarded the contract to the H. J. McNICHOLS CO. for the construction of both sections of the Argyle St. sewer system. The estimated cost is $683,000. Noted July 1.

Chicago, Ill.—The lowest bid submitted for the construction of the Calumet Intercepting Sewer, Contract No. 3 was that of the Byrne Bros.' Dredging & Engineering Co., Chicago, at $331,883. Noted June 10.

Cicero, Ill.—Bids will be received until July 12 by the Board of Local Improvements for the construction of vitrified pipe sewers in West 18th and West 58th St.

Marshall, Ill.—Preliminary plans are being prepared by W. Robert Paige, Terre Haute, Ind., for the construction of extensions to the sanitary sewer system. Bids will be received about Aug. 1 by the Board of Local Improvements.

✚Ottawa, Ill.—The contract for the construction of the Madison St. sewer has been awarded to the OMAHA CONSTRUCTION CO., Omaha, Neb., at $4530. Noted June 24.

✚Kewaunee, Wis.—The contract for sewer construction has been awarded to the GREY, ROBINSON CONSTRUCTION CO., Kewaunee.

Milwaukee, Wis.—(Official)—Bids will be received until July 22 by the Sewerage Commission for the construction of 11 reinforced-concrete tanks on pile foundation. The tanks will be 30 ft. inside diameter by 14 ft. deep. This is the first part of the construction of the sewage-disposal works which will be built by the city. T. Chalkley Hatton is Ch. Engr. Noted Apr. 29.

✚Milwaukee, Wis.—The Department of Public Works has awarded the contract for the construction of sewers in Hawley Rd. to A. J. HEWITT, Milwaukee, at $4330, and for the construction of sewers in Green Bay Ave. and in 44th, 45th and 46th St. at $2100 and $3885, respectively.

✚Waupaca, Wis.—(Official)—The contract for sewer construction in South Main St. has been awarded to C. H. PHILLIPS, Waupaca. Noted June 17.

Whitewater, Wis.—(Official)—Bids will be received until 2 p.m., July 12, by A. N. Savee, City Clk., for the construction of sewers.

Lenox, Iowa—The contract will be awarded about July 15 for the construction of a sewage-disposal plant and sewers. T. S. DeLay, Creston, is Engr. Noted Jan. 7.

✚Newton, Iowa—(Official)—The contract for the construction of a sewage-disposal plant and sewers has been awarded to C. B. REYNOLDS, Council Bluffs, at $4405. Other bids were: J. W. Turner Improvement Co., Des Moines, $5383; A. W. Merrick, Boone, $4766; Elkhorn Construction Co., Fremont, Neb., $5493; Koss Construction Co., Des Moines, $6027. Noted June 24.

Ogden, Iowa—The city contemplates the construction of sewers estimated to cost $45,000. R. B. Reasoner, Perry, is Engr.-in-Charge.

Sanborn, Iowa—Bids will be received until July 9 by J. H. McNeil, Mayor, for the construction of a sewage-disposal plant and approximately four miles of sewers. P. A. Edquist, 865 Omaha National Bank Bldg., Omaha, Neb., is Engr. Noted Apr. 1.

Waterloo, Iowa—Plans are being prepared for the construction of a sewer system in the Galloway, Hagerman and Downing additions, also the construction of a sewage-disposal plant. C. A. Roby is City Engr. Noted Apr. 22.

✚Pipestone, Minn.—The contract for the construction of storm sewers has been awarded to G. S. REDMON, Pipestone, at $8366.

Rochester, Minn.—(Official)—Bids will be received until July 12 by the city for the construction of sewers. The estimated cost is $6700. J. C. Utton is City Engr. Noted June 10.

Clyde, Kan.—Bids will be received until 5 p.m., July 15, by J. A. Hawkinson, Mayor, for the construction of a sewer system. The estimated cost is $25,000. E. T. Archer & Co., 514 New England Bldg., Kansas City, Mo., is Consult. Engr. Noted May 20.

Emporia, Kan.—The city contemplates the construction of 2½ miles of sewers. M. Brown is City Engr. and F. Smith is City Clk.

Wymore, Neb.—The city contemplates the construction of a sewer system.

Choteau, Mont.—Bids will be received until July 9 by A. L. Powers, City Clk., for the construction of sanitary sewers including 5176 lin.ft. of 8- and 9-in. vitrified pipe sewers. Noted June 1.

✚Laurel, Mont.—The contract for the construction of a sewer system has been awarded to the SECURITY BRIDGE CO., Lewiston, Idaho, at $14,033. Noted June 3.

Jefferson City, Mo.—Plans are being prepared for the construction of a sewer system. The estimated cost is $50,000. P. C. Harding is City Engr. and Frank Morris is City Clk.

✚Maplewood, Mo.—The contract for the construction of the Maplewood Sewer, No. 1 has been awarded to the CONNEY CONSTRUCTION CO., at $51,938. Noted May 27.

✚Benton, Ark.—The contract for the construction of a sewer system has been awarded to the J. B. McCRARY CO., Atlanta, Ga. Noted May 27.

Moscow, Idaho—Bids will be received until July 12 by J. R. Strong, City Clk., for the construction of storm sewers.

Salt Lake City, Utah—(Official)—Bonds for $300,000 have been sold. Part of the proceeds will be used for the construction of sewers. Contracts will be awarded about July 20. Noted May 6.

✚Phœnix, Ariz.—The contract for the construction of an addition at the sewage-disposal plant has been awarded to GEORGE TISDALE, Phœnix, at $10,000.

Forest Grove, Ore.—Plans are being prepared by R. E. Koon, Portland, for the construction of a sewer system. The estimated cost is $20,000. Noted June 10.

Mt. Angel, Ore.—Bids will be received until 3 p.m., July 13, by P. N. Smith, City Recdr., for cement, sand, gravel, sewer pipe and for the construction of a sewer system. The estimated cost is $15,000. Noted June 24.

✚Portland, Ore.—C. G. Randles, at $6514, submitted the lowest bid for the construction of the Westover Terrace Sewer System.

Tillamook, Ore.—Bids will be received until 8 p.m., July 14, by John Aschim, City Recdr., for the construction of sewers and drains. The estimated cost is $10,000.

East San Diego, Calif.—The city contemplates the construction of a sewer system. The estimated cost is $50,000.

✚Sacramento, Calif.—The contract for the construction of Unit No. 2 of the trunk sewer from Freeport Rd. to the Lower Stockton Rd. has been awarded to the CLINTON FIREPROOFING CO., San Francisco, at $92,192.

San Diego, Calif.—The city contemplates the construction of sewers from Old Town to Mission Bay.

San Diego, Calif.—The City Council contemplates the construction of a sewer in Bisbee St. The estimated cost is $12,000.

✚San Francisco, Calif.—The contract for the construction of a sewer in Vermont St. has been awarded to the TIBBITTS-PACIFIC CO., at $12,701.

Trenton, N. S.—Bids will soon be received for the construction of sewers. The estimated cost is $4300. W. Fraser is Clk.

Bathurst, N. B.—See item under "Water Supply—Irrigation."

Verdun, Que.—The city contemplates an expenditure of $100,000 for the construction of sewers and for paving.

Toronto, Ont.—Bids will be received until July 20 by T. L. Church, Mayor, for sewer construction.

Prince Albert, Sask.—The city contemplates the construction of sanitary sewers in 15th St. The estimated cost is $11,000. J. H. Brown is Clk.

Regina, Sask.—The City Council will construct sewers estimated to cost $11,000. George Beach is Clk.

STREETS AND ROADS

Boston, Mass.—(Official)—Bids will be received until noon, July 12, by the Commissioner of Public Works for constructing a bituminous roadway in Schiller Rd. from Rockland St. to Dedham line, West Roxbury.

✚**Boston, Mass.**—The contract for constructing 3700 lin.ft. of road in Danvers has been awarded to D. LENEHAN, Beverly, at $8977. Noted June 24.

✚**Boston, Mass.**—The contract for furnishing 7500 bbl. of portland cement to the State Highway Commission has been awarded to E. S. FIELDS at $1.18 per bbl. Other bids were: Davis W. Lewis, $1.30; Powers Bros., $1.20; J. W. Ramsay, $1.30; Bath Portland Cement Co., $1.20; R. O'Connell Co., $1.30; Waldo Bros., $1.30. Noted June 24.

Lawrence, Mass.—The City Council contemplates an expenditure of $31,337 for street improvements.

Walpole, Mass.—(Official)—Bids will be received until 7:30 p.m., July 12, by the Town Council for grading and surfacing a number of streets.

Providence, R. I.—(Official)—Bids will be received until 2:15 p.m., July 12, by the Board of Contract and Supply for paving Fountain and Empire St. with wooden block pavement. William C. Pelkey is Clk.

✚**Hartford, Conn.**—The contract for constructing approximately 8300 lin.ft. of stone macadam on the Riverton Rd. has been awarded to JOHN DE MICHAEL & BRO., Torrington, at $10,360. Noted May 20.

✚**New York, N. Y.**—(Borough of Bronx)—(Official)—The contract for paving Fordham Rd. from Webster Ave. to Harlem River Terrace has been awarded to the UVALDE ASPHALT PAVING CO., at $90,176. Noted June 17 and July 1.

✚**New York, N. Y.**—(Borough of Bronx)—(Official)—See item under "Sewers."

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received June 30 by L. H. Pounds, Borough Pres., for regulating and repaving (a) Lincoln Rd. from Bedford to Rogers Ave., (b) Pioneer St. from Van Brunt to Richards St., (c) Vernon Ave. from Marcy to Tompkins Ave. and Tompkins Ave. from Vernon to Greene Ave., as follows: Sicilian Asphalt Paving Co., 41 Park Row, (a) $6075, (c) $17,993; Uvalde Asphalt Co., (a) $7942, (b) $7689, (c) $23,026; Cranford Co., (a) $7946; Barber Asphalt Co., (a) $7505, (c) $27,716; McFarlane Contracting Co., 504 Park Pl., (b) $6882; J. P. B. LaMarsh, (b) $8341; Rosenthal Engineering Co., (c) $21,244. Noted June 24.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received June 28 by Marcus M. Marks, Borough Pres., for improving (a) 38th St. from Park to Madison Ave., (b) 62nd St. from Columbus to Amsterdam Ave., (c)) West End Ave. from 91st to 96th St. and 95th St. from Broadway to West End Ave., (d) 36th St. from 10th to 11th Ave., (e) Amsterdam Ave. from 63rd to 68th St., as follows: Aztec Paving Co., 90 West St., (a) $3271, (b) $81,289, (c) $19,397; Uvalde Asphalt Co., (a) $3648, (b) $207,011, (c) $20,913; Cleveland Trinidad Paving Co., (a) $4219, (b) $158,181, (c) $24,361; Sicilian Asphalt Co., (a) $3447, (b) $119,194, (c) $19,007; Barber Asphalt Co., (a) $3969, (b) $126,733, (c) $21,432; Asphalt Construction Co., 50 Church St., (a) $3499, (b) $66,386, (c) $17,923; (d) $12,017, (e) 153,877; Matthew Baird Construction Co., 433 East 92nd St., (d) $12,879, (e) $58,429; W. J. Fitzgerald, (d) $12,749, (e) $126,742; Fitzgerald & Brenan, (d) $13,436, (e) $242,374; Rogers & McManus, (e) 217,863; Rafferty Contracting Co., (e) $186,938.

Rochester, N. Y.—The Common Council has voted to pave Pitkin St. with asphalt and Woodlawn St. with brick. The estimated cost is $13,700.

Camden, N. J.—Press reports state that bonds for $50,000 have been sold, the proceeds of which will be used for repaving a number of streets.

Elizabeth, N. J.—According to press reports the Board of Works in its budget for the present year has made an appropriation of $20,000 for street improvements.

Guttenberg, N. J.—(Official)—Bids will be received until 8 p.m., July 19, by William J. Bramley, Town Clk., for regulating and paving Bergenline Ave. Noted June 17.

Hackensack, N. J.—Bids will be received until July 12 by the Board of Chosen Freeholders of Bergen County for improving portions of the Kinderkamack Rd., Piermont Rd. and Grand Ave.

Hoboken, N. J.—The City Commissioners plan to repave River St. from Hudson Pl. to Fourth St., 14th St. from Willow Ave. to its eastern boundary, Hudson St. from 11th to 14th St. James H. Londrigan is Comr. Streets and Pub. Impv.

Jersey City, N. J.—(Official)—Bids will be received until 11 a.m., July 15, by the City Commissioners for repaving the Secaucas Rd. Michael I. Fagen is City Clk.

Jersey City, N. J.—Press reports state that the City Council is considering the improvement of Tonnele Ave. by paving with wood on a concrete base.

Trenton, N. J.—Engineers recently finished the survey of the proposed Delaware River Blvd., which when completed will rival the famous drive along the Hudson, north of New York. The thorofare will be 100 ft. wide, and will be divided into two parts, one for heavy traffic and the other for automobiles. The road will connect the cities of Camden and Trenton.

Middletown, N. J.—Bids will be received until July 12 by the Board of Chosen Freeholders of Monmouth County, Freehold, for repairing a portion of the Red Bank-Middletown Rd. in Middletown Township.

Millburn, N. J.—(Official)—Bids will be received until 8 p.m., July 12, by the Township Committee for grading, draining and paving Highland Ave.

✚**Newark, N. J.**—Contracts have been awarded for paving Oraton St., Richard St. and Clifton Ave. to the CONTINENTAL PUBLIC WORKS, at $5929, $6609 and $11,797 respectively. Noted May 20, June 3 and July 1.

Newark, N. J.—Bids will be received until July 28 by the Board of Street and Water Commissioners for constructing Bound Creek and Frelinghuysen Ave.

Newark, N. J.—Bids will be received until July 22 by the Board of Street and Water Commissioners for paving Conklin Ave. from Osborne Terrace to about 350 lin.ft. west of Seymour Ave. and Shadwick Ave. from Jeffery Pl. to Renner Ave.

Newark, N. J.—(Official)—Bids will be received until July 15 by the Board of Streets and Water Commissioners for repaving South Orange Ave. from South Ninth St. to South 29th St.

New Brunswick, N. J.—Bids were received for resurfacing the Old Bridge Turnpike, as follows: Thomas H. Riddle, $34,674; Utility Construction Co., $35,742; Northern Construction Co., $36,504; Thomas F. Dunigan, $36,503. Noted Apr. 29.

Newton, N. J.—Press reports state that the Town Committee contemplates improving Spring St. from the Delaware, Lackawanna & Western R.R. to Madison St. with concrete.

Perth Amboy, N. J.—(Official)—We are advised that Front St. from Market to Gordon St. will be improved by paving with concrete. The work will be done by the city forces. Noted June 17.

Westville, N. J.—(Official)—At a recent election the question of issuing $50,000 in bonds, the proceeds of which was to have been used for street improvements was defeated. Noted June 17.

Berlin, Penn.—At the election held June 30 the citizens voted in favor of issuing $8000 in bonds, the proceeds of which will be used for paving Main St.

✚**Cementon, Penn.**—The contract for constructing a concrete road on Third St. has been awarded to E. R. HAWKE, Northampton, at $6000.

Clarion, Penn.—Bids will be received until July 15 by F. M. Arnold, Jr., Secy. Borough Council, for constructing brick and concrete pavements.

Easton, Penn.—Press reports state that the Commissioners of Northampton County have voted an appropriation of $9000 for constructing a concrete road connecting Easton, Bethlehem and Allentown. Private subscriptions to the amount of $15,000 have been received for the same purpose.

Philadelphia, Penn.—(Official)—Bids will be received until July 13 by the Bureau of Highways for grading, paving and resurfacing a number of roads, at an estimated cost of $635,000.

✚**Wilkes-Barre, Penn.**—The contract for paving Lehigh St. has been awarded to MICHAEL J. MALLORY, Sugar Notch, at $5631.

✚**Baltimore, Md.**—The contract for paving Camden St. from Paca to Eutaw St. with granite blocks has been awarded to the CONSOLIDATED ENGINEERING CO., at $6595.

Chestertown, Md.—(Official)—Bids will be received until noon, July 13, by the Commissioners of Kent County for constructing a section of State Aid Highway in Kent County.

Richmond, Va.—The City Council plans to pave Grove Ave. from the Boulevard to the city limits.

✚**Richmond, Va.**—Contracts have been awarded for paving Cary St. to J. J. CURLEY, at $4500; Broad St. Rd. to A. L. PHILLIPS SONS, at $6000; Hermitage Rd. to L. K. BLACK, at $10,000.

Elkins City, W. Va.—The City Council has appropriated $40,000 for new pavements on unpaved streets in the main part of the city.

✚**Lincoln, N. C.**—A contract for constructing 20,000 sq.yd. of asphaltic concrete pavement has been awarded to the NOLL CONSTRUCTION CO., Chattanooga, Tenn. Noted May 20.

✚**Wilmington, N. C.**—(Official)—A contract for constructing 15 miles of sand clay road in Northwest Township, Brunswick County has been awarded to HENING & HAGEDORN, Four Oaks, at $20,000.

Melbourne, Fla.—At a recent election the citizens of Brevard County voted in favor of issuing $150,000 in bonds, the proceeds of which will be used for improving and constructing roads.

✚**Selma, Ala.**—(Official)—Contracts have been awarded for constructing the Barker's Mill Rd. to the CENTRAL ALABAMA CONSTRUCTION CO., Luverne, at $7000, and the Blablock and Uniontown Rd. to D. R. COOK & CO., Montgomery, at $7000. Noted June 7.

Bogalusa, La.—Press reports state that the city contemplates holding an election for the purpose of voting on the question of issuing $200,000 in bonds, the proceeds of which will be used for improving streets.

★**New Orleans, La.**—(Official)—Bids will be received until 11 a.m., July 20, by the Commission Council for paving approximately 75,510 sq.yd.; also for constructing about 55,000 sq.yd. of gravel macadam oiled surface roadway.

★**New Orleans, La.**—(Official)—Bids will be received until 11 a.m., Aug. 3 by the Commission Council for paving additional streets. A. G. Ricks is Comr. Pub. Finances.

Byrdstown, Tenn.—Press reports state that the Quarterly Court of Pickett County has voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for constructing roads.

Crossville, Tenn.—An election will be held July 12 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for improving roads in Cumberland County.

Spring Hill, Tenn.—At the election held June 26 the citizens voted in favor of issuing $10,000 in bonds, the proceeds of which will be used for paving a number of streets.

Owensboro, Ky.—Press reports state that the citizens of Daviess County voted in favor of issuing $600,000 in bonds, the proceeds of which will be used for building 100 miles of rock roads.

✚**Canton, Ohio**—(Official)—Contracts have been awarded for paving Deuber Ave. to the CLEVELAND TRINIDAD PAVING CO., at $49,797; Harrisburg Rd. to the F. A. DOWNS CONSTRUCTION CO., at $25,306; Ninth St. to HARRY CORI, at $22,200; Fifth St. to PETER CHRISTIANSON, at $28,015; Indiana Way to M. NELSON, at $14,320.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 16, by Philip Fosdick, Dir. Pub. Ser., for improving Montgomery Rd. from Gilbert Ave. to the Norfolk & Western Ry.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 12, by Philip Fosdick, Dir. Pub. Ser., for improving Glenway Ave. from Warsaw Ave. to the wood-block pavement at West Line Section 36.

Cincinnati, Ohio—(Official)—All bids received for repaving Bloody Run Parkway have been rejected. Noted June 10.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., July 21, by E. G. Krause, Clk. of Comrs. of Cuyahoga County, for the sale of $23,582 in bonds, the proceeds of which will be for improving the Chagrin Falls-Greenville Rd.

✚**Columbus, Ohio**—Contracts have been awarded for paving as follows: Main St. from High to Parsons St. to the CLEVELAND TRINIDAD PAVING CO., at $53,945; West Broad St. from Sandusky to Shady Lane to the ANDREWS ASPHALT PAVING CO., at $102,248; Peters Ave. from Fifth to Leona Ave. to B. F. PATTERSON, at $8000; Second St. from Livingston to Rich St. to GEORGE GEIGLE & SON, at $10,000.

Jefferson, Ohio—(Official)—Bids will be received until noon, July 26, by W. B. Culp, Village Clk., for grading and paving a portion of Main St.

Jeromesville, Ohio—(Official)—Bids will be received until noon, July 10, by M. L. Hosler, Clk., of the Village Council, for the sale of $18,500 in bonds, the proceeds of which will be used for improving a portion of Main St.

✚**Lakewood, Ohio**—(Official)—Contracts have been awarded for paving Matthews Ave., Park Row, Clifton Rd., Forest Rd. and West Forest Rd. to the CLEVELAND TRINIDAD PAVING CO., Cleveland, at $9923, 6527, $31,913, $10,365 and $8246 respectively. Noted June 10.

Lorain, Ohio—(Official)—Bids will be received until noon, July 13, by George N. Damon, City Audr., for the sale of $16,000 in bonds, the proceeds of which will be used for improving certain streets.

Mt. Victory, Ohio—(Official)—Bids will be received until noon, July 26, by Frank Lydick, Village Clk., for the sale of $11,300 in bonds, the proceeds of which will be used for paving Main St.

New Philadelphia, Ohio—(Official)—Bids will be received until 1 p.m., July 19, by the Commissioners of Tuscarawas County for improving Section 1 of the Oldtown Road Improvement in Goshen and York Townships. R. H. Nussdorfer is County Audr.

Silverton, Ohio—(Official)—Bids will be received until noon, July 23, by A. A. Sprague, Village Clk., for the sale of $8000 in bonds, the proceeds of which will be used for improving a number of streets.

Tiffin, Ohio—(Official)—Bids will be received until noon, July 12, by William Heller, Dir. Pub. Ser., for improving a number of streets.

Wapakoneta, Ohio—Bids will be received until July 16 for the sale of $23,000 in bonds, the proceeds of which will be used for improving Rapp Pike. F. W. Langhorst is County Audr.

Westerville, Ohio—Bids will be received until July 16 by the City Clerk for improving Winter St. from State to Vine St., Vine St. from Broadway to the county line and West Home St. from State to West St.

Xenia, Ohio—(Official)—Bids will be received until noon, July 20, by C. W. Whitmer, Dir. Pub. Ser., for paving Church and King St.

Indiana—(Official)—Bids will be received for road improvements in Indiana as follows: Bridgeport, until 1 p.m., July 15, by the Highway Commission of Bridgeport Township for constructing three miles of hard road; Goshen, until 1 p.m., July 17, by the Commissioners of Elkhart County for constructing concrete roads in Harrison, Olive and Concord Townships; Noblesville, until 10 a.m., July 20, by the Commissioners of Hamilton and Marion Counties for constructing a county line road; Indianapolis, until 10 a.m., July 30, by the Commissioners of Hamilton and Marion Counties for constructing a county line road.

✚**Evansville, Ind.**—(Official)—A contract for constructing a rock road in Scott Township has been awarded to JOHN FRIDY, Evansville, at $8300. Noted June 17.

Gary, Ind.—Bids will be received until July 19 by the Board of Public Works for resurfacing Washington Ave., Section 6, from 11th to 17th Ave. with granite asphalt, at an estimated cost of $8215. W. J. Fulton is City Engr.

Gary, Ind.—Bids will be received until July 12 by the Board of Public Works for resurfacing Seventh Ave., Section 1, from Alley 2 West to Alley 2 East, at an estimated cost of $10,519.

✚**Gary, Ind.**—(Official)—The contract for paving Mass St. with concrete macadam on slag foundation has been awarded to M. D. HEINY, Gary, at $6942. Noted June 10.

Indianapolis, Ind.—(Official)—Bids will be received until 10 a.m., July 12, by the Board of Public Works for improving Linwood Ave.

✚**South Bend, Ind.**—(Official)—The contract for paving Allen St. has been awarded to H. N. BARNES, Johnson St., South Bend, at $9367. Noted June 17.

✚**Kalamazoo, Mich.**—(Official)—A contract for constructing 20,000 sq.yd. of asphaltic concrete pavement has been awarded to the GLOBE CONSTRUCTION CO., Kalamazoo, at $0.85 per sq.yd. Contracts for 113,000 paving blocks have not been awarded. Noted Apr. 29.

Cicero, Ill.—(Official)—Bids will be received until 8 p.m., July 12, by the Board of Local Improvements for Improving 61st St. from 12th to 15th St. and 60th St. from 12th to 22d St. Charles Stoffel is Town Clk.

✚**Elgin, Ill.**—(Official)—Bids were received June 26 for paving North State St. from LOGAN & GIERTZ CONSTRUCTION CO., Elgin, Ill., $24,360 (awarded contract); Illinois Hydraulic Stone & Construction Co., Elgin, $25,310; H. G. Goelitz, Oak Park, $25,240. Noted June 24.

✚**Springfield, Ill.**—(Official)—Contracts have been awarded for road construction in various counties as follows: Page County, Section B, THOMAS B. CUTLER, Gary. [illegible] Jo Daviess County, Sections A and B, EMPIRE CONSTRUCTION CO., Des Moines, $9989; La Salle County, Sections [illegible] and D, F. E. BALL, Hampshire, $8800, and W. J. BRENNAN, La Salle, $8027, respectively. Noted June 24.

✚**Black River Falls, Wis.**—The Board of Public Works has awarded the contract for paving Main, Polk and 10th Sts. with reinforced-concrete pavement to J. R. McDONALD, at $12,320.

✚**Dodgeville, Wis.**—The contract for paving Division St. with concrete has been awarded to T. W. QUINN, Madison, at $10,495.

Horicon, Wis.—Bids will be received until July 16 by the City Clerk for paving streets.

Shawano, Wis.—(Official)—All bids received for paving 9233 sq.yd. with macadam and 3763 lin.ft. combined curb and gutter have been rejected. Noted June 17.

✚**Ft. Dodge, Iowa**—The contract for paving First Ave. S. has been awarded to the JOHN A. McGARRY CO., Chicago, Ill., at $38,306.

✚**Sheldon, Iowa**—A contract for paving nine blocks has been awarded to the DEARBORN CONSTRUCTION CO., at $1.21 per sq.yd.

Valley Junction, Iowa—The City Council plans to pave a number of streets.

St. Paul, Minn.—The City Council plans to repave University Ave. from Rice to Dale St. with creosoted blocks, at an estimated cost of $57,514.

Willmar, Minn.—No bids were received June 25 for constructing State Roads Nos. 3 and 7. Samuel Nelson is Audr. of Kandiyohi County.

Ft. Scott, Kan.—Press reports state that bids will be received until Aug. 2 by N. J. Rose, Clk. of Bourbon County for constructing three miles of macadam on Coleman Rd.

✚**Glasco, Kan.**—(Official)—A contract for constructing concrete pavement, curb and gutter on Main St. has been awarded to A. R. STIMSON, Topeka. Noted June 10.

Ottawa, Kan.—(Official)—Bids will be received until 1 p.m., July 10, by Edith M. Cusick, City Clk., for grading, curbing, guttering and paving a portion of Walnut St. F. M. Harris is Mayor.

Kalispell, Mont.—Press reports state that the City Council has voted to construct concrete sidewalks and crosswalks in Districts Nos. 166 and 167, at an estimated cost of $30,850.

Bethany, Mo.—The Universal Concrete Co., St. Joseph, Mo., was the lowest bidder for paving 11,500 sq.yd. with concrete. J. R. McClure is City Clk.

✚**Kansas City, Mo.**—The contract for paving 12th St. has been awarded to A. R. MENISE, at $21,921.

✚**Helena, Ark.**—The contract for paving Perry St. has been awarded to the SOUTHERN BITULITHIC CO., Nashville, Tenn., at $41,000.

Howe, Tex.—At the election held June 25 the citizens of Grayson County voted in favor of issuing $60,000 in bonds, the proceeds of which will be used for constructing roads.

Longview, Tex.—(Official)—Bids will be received until noon, July 14, by the Commissioners Court of Gregg County for grading and surfacing with stone and gravel 15 miles of the Dallas-Shreveport Highway. D. K. Caldwell is County Engr.

Paris, Tex.—Bonds for $50,000 have been sold, the proceeds of which will be used for improving streets.

★**San Antonio, Tex.**—(Official)—Bids will be received until 4 p.m., July 15, by Fred Fries, City Clk., for approximately 120,000 sq.yd. of paving.

✚**McAlester, Okla.**—The contract for paving Third St. has been awarded to JOHN W. ROOKS, at $13,593. Noted Oct. 8 and June 25.

Tulsa, Okla.—At a recent election the citizens voted in favor of issuing $100,000 in bonds for improving and constructing parks and boulevards. Noted June 24.

✚**Ft. Collins, Colo.**—The Commissioners of Larimer County have awarded the contract to F. C. DREHER, Denver, at $16,255, for constructing three miles of the Fall River-Grand Lake Highway. Noted June 24.

✚**Ogden, Utah**—The contract for paving Madison Ave. from 25th to 28th St. has been awarded to P. J. MORAN, Salt Lake City, at $28,280. Noted June 10.

Kingman, Ariz.—An election will be held July 27 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing roads in Mohave County.

Phœnix, Ariz.—The City Commission plans to pave about 153,000 sq.ft. on West Adams St. with bitulithic pavement.

✚**Goldendale, Wash.**—(Official)—The contract for constructing Permanent Highway No. 4 has been awarded to the TRANSFER & LIVERY CO., Hood River, Ore., at $20,950. Other bids were: Saulsberry & Nelson, Prosser, $21,945; Cascade Construction Co., Walla Walla, $21,499. Noted June 17.

✚**Olympia, Wash.**—The contract for paving East Fourth St. has been awarded to the INDEPENDENT ASPHALT CO., Seattle.

Port Townsend, Wash.—(Official)—The contract for improving a number of streets has been awarded to the NETTLETON, BRUCE ESCHBACH CO., 903 American Bank Bldg., Seattle, at $15,190. Other bids were: Erickson Construction Co., $24,500; M. P. Zindorf, $16,600; Rown & Anderson, $19,600. Noted June 17.

✚**Seattle, Wash.**—The contract for constructing the Woodinville-Duvall Rd. has been awarded to BOOKER, KIEHL & WHIPPLE, at $45,214. Noted June 10.

Seattle, Wash.—Bids will be received until 10 a.m., July 20, by the Commissioners of King County for constructing the Enumclaw-Franklin Rd. The estimated cost is $50,000.

✚**Oregon City, Ore.**—The contract for paving Main St. has been awarded to the WORSWICK PAVING CO., Astoria, at $14,184. Noted Apr. 8.

Manhattan Beach, Calif.—The Municipal Improvement Co. submitted the lowest bid for improving two sections of Manhattan Ave.

✚Pasadena, Calif.—The contract for paving and curbing Pasadena Ave. has been awarded to ANDREW HOLLOWAY, 415 South Broadway, at $7200.

✚Petaluma, Calif.—The City Trustees have awarded a contract for street improvements to EATON & SMITH, San Francisco, at $12,172.

✚Portersville, Calif.—The contract for paving Morton, E and F St. has been awarded to the SUNSET CONSTRUCTION CO., San Francisco, at $30,000.

✚Sacramento, Calif.—Contracts have been awarded for road construction in Colusa County from Colusa Junction to the northerly boundary, 10½ miles, to L. F. GERDETZ, San Francisco, at $40,052 and Kings County from Hanford to the eastern boundary, 9 miles, to GEORGE S. BENSON & SONS, Los Angeles, $50,212. Noted June 17.

Sacramento, Calif.—The City Council is having plans prepared for paving Front St. from N to Q St. and from Q to S St.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 19, by the State Highway Commission for constructing state highways as follows: Alameda County, from Livermore to Santa Rita, 5.8 miles; Santa Clara County, from Los Gatos to San José, 8.9 miles; Los Angeles County, from Rancho Tujunga to La Canada, 4.9 miles.

✚San Bernardino, Calif.—The contract for improving Second St. from E to I St. has been awarded to TUTTLE & DEYOE, at $12,236.

✚San Francisco, Calif.—The contract for improving Arguello Blvd. has been awarded to the FEDERAL CONSTRUCTION CO., at $12,198.

San Francisco, Calif.—Press reports state that the Board of Public Works plans to pave Gates, Missouri, Spruce and Excelsior St.

✚San Francisco, Calif.—The contract for constructing the first section of the Twin Peaks Blvd. has been awarded to EATON & SMITH, at $24,058.

New Glasgow, N. S.—Press reports state that the City Council will lay bitulithic pavement on Archimedes St.

Scotstown, Que.—The Town Council will construct pavements, at an estimated cost of $5000.

Verdun, Que.—See item under "Sewers."

Hensall, Ont.—Bids will soon be received by the City Council for constructing concrete sidewalks on Alfred and Albert St.

INDUSTRIAL WORKS

Boston, Mass.—(Official)—The storage building to be constructed for Joseph Segal will be two stories instead of eight stories, and will be built by day work. F. A. Norcross, 46 Cornhill, is Arch. Noted July 1.

✚Waterbury, Conn.—The Scoville Mfg. Co. has awarded the contract for the construction of a four-story, 68x203-ft. factory on Silver St. to the McCLINTIC-MARSHALL CO.

✚Lockport, N. Y.—MARION BROS., Rochester, N. Y., has been awarded the contract for the construction of a $30,000 addition to the plant of the Covert Motor Vehicle Co., Grand and Green St.

Jamestown, N. Y.—The Crescent Tool Co. will build a three-story, 50x106-ft. factory by day labor. The estimated cost is $55,000. Freeburg & Fidler is Arch. Noted Mar. 18.

✚New York, N. Y.—(Borough of Brooklyn—Jason S. Bailey has awarded the contract for the construction of a seven-story reinforced-concrete factory on Bond St. to the CONCRETE STEEL CO. Parfitt Bros., 26 Court St., is Arch. Noted June 10.

New York, N. Y.—(Borough of Brooklyn)—The American Tobacco Co., Kent Ave., will build a 200x300-ft. factory at Park and Nostrand Ave., to cost approximately $500,000. Francisco & Jacobus, 200 Fifth Ave., Borough of Manhattan, is Arch.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the construction of a three-story,60x200 -ft. reinforced-concrete building for W. Becker's Aniline & Chemical Works, Inc., 105 Underhill Ave., has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway (Borough of Manhattan). Benjamin Driesler, 153 Remsen St., is Arch. Noted Mar. 11 and July 1.

New York, N. Y.—(Borough of Brooklyn)—Kirkman & Son, 215 Water St., will build a seven-story, 75x100-ft. brick and steel storage building at Bridge and Plymouth St. The estimated cost is $100,000.

New York, N. Y.—(Borough of Manhattan)—Joseph Stern & Sons, Inc., will build a nine-story warehouse at 630 West 40th St. E. Poirot is Arch. The estimated cost is $180,000.

Camden, N. J.—Bids are being received for the construction of a four-story, 96x100 ft. factory for E. & R. Preisendanz. J. C. Jefferis, 1001 Chestnut St., Philadelphia, Penn., is Arch.

Newark, N. J.—Bids are being received for the construction of a four-story, 60x100-ft. garage for the Cadillac Motor Car Co., 1881 Broadway, New York, N. Y. The estimated cost is $80,000. William E. Lehman, 738 Broad St., is Arch.

✚Trenton, N. J.—The contract for the construction of a three-story, 50x150-ft. brick and concrete factory for W. F. Taubel, Riverside, N. J., has been awarded to the HARRISON C. REA CO. W. U. Jury, Shamokin, Penn., is Arch.

✚Trenton, N. J.—J. L. Mott Co. has awarded the contract for the construction of a 100x240-ft. warehouse to the NEWTON A. K. BUGBEE CONSTRUCTION CO. The estimated cost is $20,000.

Chester, Penn.—The Roach Shipyard plans the construction of a $1,000,000 ship-building plant. Joseph H. Hinkson is Secy. Charles P. M. Jack, 17 Battery Pl., New York, N. Y., is Engr.

New Castle, Penn.—The Federal Radiator Co. has been incorporated with a capital of $600,000 by Parker H. Cunningham and others and will remodel the plant of the Penn Motor Co.

✚Philadelphia, Penn.—The contract for the construction of a seven-story, 47x120-ft. reinforced-concrete warehouse for Joseph C. & Roy A. Heymann has been awarded to CRAMP & CO., 801 Denckla Bldg. Charles E. Oelschlager, Harrison Bldg., is Arch.

✚Philadelphia, Penn.—Janney & Burrows, 315 North Third St., has awarded the contract for the construction of additions to its warehouse to KETCHEM & McQUADE, 1129 Brown St. Ballinger & Perrott, 1701 Arch St., is Arch. The estimated cost is $15,000. Noted June 24.

Tacony Station, Penn.—(Philadelphia post office)—(Official)—The L. H. Gilmer Co., 52 North Seventh St., Philadelphia, Penn., has purchased a two-acre site at Tacony Station and will build a factory.

✚Wilkes-Barre, Penn.—Nelson Bros., 38 Baltimore St., has awarded the contract for the construction of a five-story, 30x50-ft. warehouse to ECKENRODE BROS., 115 Park Ave. The estimated cost is $10,000. Henry Maier, Coal Exchange Bldg., is Arch. Noted May 27.

Hagerstown, Md.—(Official)—Plans will soon be ready for bids for the construction of a two-story, 100x200-ft. reinforced-concrete factory for the Pangborn Corporation. The estimated cost is $50,000. Penckert & Wunder, 310 Chestnut St., Philadelphia, Penn., is Arch. Noted May 20 and July 1.

Valdosta, Ga.—J. M. Ashley, H. R. Buckley and associates plan the construction of a 50x200-ft. hosiery factory at an estimated cost of $50,000.

North Birmingham, Ala.—(Birmingham post office)—The Birmingham Stove & Range Co. plans the construction of a $100,000 plant.

Nashville, Tenn.—Bids are being received by Marr & Holman, Arch., for the construction of a two-story, 170x175-ft. reinforced-concrete garage for the Bransford Realty Co.

✚Mt. Sterling, Ky.—Kirkpatrick & Clay has awarded the contract for the construction of a tobacco warehouse on Sycamore St. to EDWARD L. WILLIAMS.

Akron, Ohio—The Goodyear Tire & Rubber Co. plans the construction of one eight-story and two seven-story buildings to cost about $400,000.

Cleveland, Ohio—W. S. Ferguson & Co., Engr., Euclid Bldg., is preparing plans for the construction of a three-story, 50x200-ft. garage for the Adams, Oakland Co., H. M. Adams, 1901 Euclid Ave., is Pres. The estimated cost is $50,000.

✚Toledo, Ohio—The Toledo Cooker Co., West Bancroft St., has awarded the contract for the construction of a two-story, 72x185-ft. addition to its factory to SCHILLINGER BROS. Mills, Rhines, Bellman & Nordhoff, 1234 Ohio Bldg., is Arch. Noted May 6.

✚Youngstown, Ohio—The Youngstown Sheet & Tube Co. has awarded the contract for the construction of its new mills to the MORGAN CONSTRUCTION CO., Worcester, Mass. The estimated cost is $300,000. Noted May 13.

✚Indianapolis, Ind.—The Citizens' Gas Co. has awarded the contract for the construction of a benzol plant to the OTTO COKING CO., 6 Church St., New York, N. Y.

✚Detroit, Mich.—The contract for the construction of a one-story, 60x170-ft. addition to the plant of the Federal Motor Truck Co. has been awarded to DE LISLE & COPPER.

✚Detroit, Mich.—The Ford Motor Co. has awarded the contract for the construction of a four-story, 100x470-ft. factory to the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y. The estimated cost is $400,000.

Detroit, Mich.—The Detroit Wire Spring Co., Morrow and Marston St., plans the construction of a two-story 80x400-ft. factory to cost about $100,000. Albert Kahn and E. Wilby, Trussed Concrete Bldg., are Archs.

Detroit, Mich.—The Packard Motor Car Co. will build a five-story factory on Concord St., to cost $175,000. Albert Kahn, 58 La Fayette St., is Arch.

Saginaw, Mich.—The Saginaw Beef Co. will build a six-story, 88x96-ft. building, to cost about $100,000.

Chicago, Ill.—The Standard Oil Co., 72 West Adams St., has purchased a site on 58th St., and plans the construction of a warehouse, garage and office building. Estimated cost, $25,000.

Minneapolis, Minn.—The Lindsay Bros. will build a brick warehouse, to cost $20,000.

✚Beatrice, Neb.—C. G. Walker has awarded the contract for the construction of a two-story garage to ROBERTSON & O'NEIL, 5202 Military Ave., Omaha, Neb. R. W. Grant is Arch. The estimated cost is $20,000.

Kansas City, Mo.—The American Can Co., 14th St. and Tenth Ave., New York, N. Y., plans the construction of a $500,000 plant at 13th and 14th St.

Kansas City, Mo.—The Columbian Steel Tank Co. will expend $250,000 for the construction of an eight-story warehouse and two 150x300-ft. factories. Andrew A. Kramer, 1605 West 12th St., is Pres.

✚Kansas City, Mo.—The Perkey Bros.' Transfer & Storage Co., 2431 Prospect St., has awarded the contract for the construction of a two-story, 54x121 ft. addition to its warehouse to the CLARK CONSTRUCTION CO., 2431 Prospect St. The estimated cost is $10,000. O. G. Knecht, 928 Broadway, is Arch.

Macon, Mo.—Wallace Smith and E. E. Wilson will build a 92x120-ft. garage on Bourke St., to cost $10,000 or $12,000.

St. Louis, Mo.—E. Mason Roberts plans the construction of a two-story garage at 3872 Washington Blvd. The estimated cost is $100,000.

✚Vinita, Okla.—J. A. Wise has awarded the contract for the construction of a one-story, 100x150-ft. garage to W. N. LANGHART. The estimated cost is $10,000.

Houston, Tex.—F. H. Stewart will build a one-story garage at 509 Capitol Ave., to cost $12,000.

✚Portland, Ore.—THOMAS MUIR has been awarded the contract for the construction of a three-story addition to the plant of the Marshall-Wells Co., 15th and Kearney St., at about $50,000. E. B. McNoughton is Arch. Noted May 6.

FEDERAL GOVERNMENT WORK

Post Office—Gardiner, Maine—Bids will be received until 3 p.m., Aug. 13, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U. S. post office at Gardiner.

Post Office—North Attleboro, Mass.—Bids will be received until 3 p.m., Aug. 12, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U. S. post office at North Attleboro.

Riprap—New York, N. Y.—Bids will be received until 2 p.m., July 14, by J. T. Yates, Lighthouse Inspector, Tompkinsville, for constructing riprap at Coney Island Light Station, New York.

✚★**Riprap**—New York, N. Y.—The contract has been awarded to McHARG BARBON CO., 171 Madison Ave., New York, at about $6000 for constructing riprap and repairing sea wall at Governors Island, New York Harbor. Noted May 27.

★**Dredging**—Port Chester, N. Y.—Bids will be received until noon, July 30, at the U. S. Engineer Office, First District, Room 710 Army Bldg., Whitehall St., New York, for dredging in Port Chester Harbor.

★**Steam Engine**—Pittsburgh, Penn.—Bids will be received until 3 p.m., July 30, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for supplying one steam engine to the Experimental Station, U. S. Bureau of Mines.

Generator—Pittsburgh, Penn.—Bids will be received until 3 p.m., July 30, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for one electric generator and generator panel for the U. S. Bureau of Mines, Pittsburgh.

✚**Post Office**—Reading, Penn.—The contract has been awarded to JOHN LOWRY, JR., 8 West 40th St., New York, N. Y., at $90,880, for constructing an extension to the post office. Noted May 6 and June 17.

★**Building**—Washington, D. C.—Bids will be received until 2 p.m., Aug. 2, by the Bureau of Standards, Washington, for constructing a chemical laboratory at the Bureau of Standards at Connecticut Ave. and the Mill Pierce Rd.

Electrical Work—Washington, D. C.—Bids will be received until 3 p.m., July 15, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, for electrical work in the U. S. Treasury and in the Winder Bldg.

Pipe—Washington, D. C.—Bids will be received until 2 p.m., July 19, by the Commissioners of the District of Columbia, Room 509 District Bldg., Washington, for furnishing c.-i. water pipe and specials.

✚**Steps**—Washington, D. C.—The contract has been awarded to ARTHUR COWSILL, Washington, at $9120, for constructing the new capitol steps. Noted June 17.

★**Dredging**—Norfolk, Va.—Bids will be received until noon, Aug. 4, at the U. S. Engineer Office, Custom House, Norfolk, for dredging in Inland Waterway from Norfolk to Beaufort, N. C.

Post Office—Wellsburg, W. Va.—Bids will be received until 3 p.m., Aug. 11, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U. S. post office at Wellsburg.

★**Jetties**—New Orleans, La.—Bids will be received until 11 a.m., July 21, at the U. S. Engineer Office, New Orleans, for constructing jetties at Southwest Pass, Mississippi River.

Breakwater and Pierhead—Conneaut, Ohio—Bids will be received until noon, July 30, at the U. S. Engineer Office, Cleveland, for constructing a pierhead and rubble mound breakwater at Conneaut Harbor.

★**Breakwater**—Chicago, Ill.—Bids will be received until 10 a.m., Aug. 3, at the U. S. Engineer Office, Chicago, for constructing a rubble mound breakwater at Chicago Harbor.

★**Shore Protection**—Rock Island, Ill.—Bids will be received until 3 p.m., July 31, at the U. S. Engineer Office, Rock Island, for constructing dams and shore protection in Iowa, Illinois and Missouri.

Building—Crow Agency, Mont.—Bids were received June 30 by the Commissioner of Indian Affairs, Washington, D. C., for constructing a brick school and heating plant at the Crow Indian School: Gagnon & Co., Billings, $20,900 (school only); W. D. Lovell, Minneapolis, Minn., $21,490 (school), $4500 (heating plant). Noted June 17.

Dredging—Bremerton, Wash.—Bids will be received until 11 a.m., Aug. 14, by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging at the navy yard, Puget Sound.

★**Cylinder Gates**—Yakima, Wash.—Bids will be received until 2 p.m., July 28, by the U. S. Reclamation Service, Washington, D. C., for furnishing two c.-i. cylinder gates for the Keechelus Reservoir.

★**Structural Steel**—Balboa, Panama—Bids will be received until 10:30 a.m., July 23, by Maj. F. C. Boggs, Pur. Agt., Panama Canal, Washington, D. C., for furnishing and erecting structural steel.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., July 20, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Marine Railway—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., Sept. 18, by H. R. Stanford, Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing a marine railway at the naval station.

Officers' Quarters—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., Aug. 21, by H. R. Stanford, Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing four one-story officers' quarters at the naval station.

MISCELLANEOUS

Dredging—Boston, Mass.—Bids will be received until 11 a.m., July 14, by the State Harbor and Land Commission for dredging about 117,000 cu.yd. at Lynn Harbor.

Dredging—Boston, Mass.—Bids were received for dredging 15,000 cu.yd. at Pleasant Park Yacht Club, Winthrop, from Eastern Dredging Co., 30c. per cu.yd.; $4500 (total); [illegible] State Dredging Co., 28c. per cu.yd.; $4200 (total).

Memorial—Cambridge, Mass.—The members of the Christian Science Church, Boston, will erect a monument as a memorial to Mary Baker G. Eddy in Mt. Auburn Cemetery. The estimated cost is $110,000.

Dredging—Boston, Mass.—The Board of Harbor and Land Commissioners has awarded the contract for dredging about 24,000 cu.yd. in Plymouth Harbor to the EASTERN DREDGING CO., 172 Condor St., East Boston, Mass., at (a) $0.[illegible] per cu.yd., (b) $0.1925 per cu.yd., (c) $9.50 per cu.yd. Other bidders were: John H. Gerrish, (a) $0.277, (b) $0.227; (c) [illegible]; Bay State Dredging Co., Ltd., (a) $0.38; (b) $0.203; (c) $8; John R. Burke, (a) $0.305; (b) $0.24; (c) $10. William F. Williams is Ch. Engr.

Motor Fire Apparatus—Everett, Mass.—Bids will be received until July 14 by the Fire Commissioners for the purchase of an auto pumping engine. Frank D. Terry is Chn. of Fire Comr.

Harbor Improvement—Providence, R. I.—The State Harbor Improvement Commission has approved the plans of William D. Bullock, Ch. Engr., for the development and improvement of the harbor, also the entrance to Seekonk River. Noted May 6.

✚**Mausoleum**—New York, N. Y.—(Borough of Bronx)—The contract for the construction of a one-story mausoleum at Woodlawn Cemetery has been awarded to the HEDDEN CONSTRUCTION CO., 52 Vanderbilt Ave., at about $75,000. John R. Hegeman, 1 Madison Ave., is the owner.

Field House—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received by George W. Wingate, Room 527, Municipal Bldg., for the general construction and completion of a field house at the Betsy Head Memorial Playground, Brownsville, Brooklyn: T. J. Buckley, 303 Fifth Ave., New York, $14,995; B. Diamond, $15,300; H. C. Stowe Construction Co., $16,889. Noted June 24.

Playground—New York, N. Y.—(Borough of Brooklyn)—Albert Brown, 90 Taylor St., is interested in a project to establish a playground on Taylor St. near Kent Ave.

Razing Buildings—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), until noon, July 9, for the wrecking of eight buildings.

✚**Dredging**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for dredging for the Riverside Park improvement, West 87th St. to West 93rd St., North River, has been awarded to H. DU BOIS, 17 State St., at 13c. per cu.yd. Noted June 17 and July 1.

Fire Hose—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by Robert Adamson, Fire Comr., Municipal Bldg., for furnishing and delivering cotton rubber lined fire hose: (a) 20,000 ft. of 2½ in.; (b) 10,000 ft. of 1½ in.; (c) total: Empire Rubber & Tire Co., 19 Warren St., New York, (a) $10,396; (b) $3380; (c) $13,756; B. F. Goodrich Co., (a) $12,400; (b) $3700; (c) $16,200; Manhattan Rubber Mfg. Co., (a) $10,726; (b) $2622; (c) $14,348. Noted June 24.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—The only bid received by Robert Adamson, Fire Comr., for furnishing and applying 26 two-wheel gasoline-driven tractors, 16 for fire engines and 10 for hook and ladder trucks, was from the Front Drive Motor Co., Willow Ave., Hoboken, N. J., at $84,500. Noted June 17 and 24.

Open-Hearth Rails—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until 12:15 p.m., July 16, for furnishing open-hearth rails for use in construction of the Rapid Transit Railroads.

Removal of Street Encroachments—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., for the removal of street encroachments, etc., at Lexington Ave. and 86th St.

Subway—New York, N. Y.—(Borough of Manhattan)—According to press reports the Queensboro subway will be extended to the Grand Central Station. The Board of Estimate has appropriated $25,000 toward this purpose.

✚**Screen Work**—New York, N. Y.—(Borough of Richmond)—(Official)—The contract for furnishing and installing certain screen work on the windows and balconies of various buildings of the Sea View Hospital has been awarded to the THERIAULT MFG. CO., 946 Flatbush Ave., Brooklyn, at $12,939. Noted June 17 and July 1.

✚**Motor Fire Apparatus**—Camden, N. J.—The City Council has awarded the following contracts for new fire equipment: JAMES BOYD & BROS., Philadelphia, pumping engine and hose wagon, $7543, 85-ft. aërial truck, $10,693, and city service truck, $5593; COMMERCIAL TRUCK CO., five tractors for present equipment and motorizing five combination wagons, $15,600. Noted Feb. 4 and 18.

Park Improvements—Camden, N. J.—A bond issue of $50,000 has been issued by the City Council for the purpose of improving the parks.

Monument and Park Extensions—Harrisburg, Penn.—The Governor has approved of appropriating $300,000 for extensions to Capital Park, and $50,000 for a monument to Gen. Meade.

✚**Dam**—Lock Haven, Penn.—The contract for constructing a portion of storage Dam No. 1 on McElhattan Run, Wayne Township, has been awarded to CHARLES DUGAN, Williamsport. H. P. Shoemaker is City Engr.

Subway—Philadelphia—Penn.—According to press reports work will be started about Aug. 1 on the construction of the proposed Broad St. Subway. A. M. Taylor is Dir., Dept. of City Transit. Noted Mar. 11 and 18.

Mausoleum—Reading, Penn.—The Pennsylvania Mausoleum Co. will erect a one-story mausoleum, 100x110-ft., at Memorial Park, to cost about $170,000. D. M. Rottenberger, Lancaster, Penn., is Arch.

Bank Protection—Augusta, Ga.—The Simons-Mayrant Co., Charleston, S. C., at $17,275, submitted the lowest bid for bank protection at Augusta.

Drainage—Savannah, Ga.—The City Council is considering the establishment of a drainage district. The estimated cost is $400,000.

Drainage—Hastings, Fla.—A drainage district, east of the boulevard will be formed embracing 5000 acres.

Harbor Channel and Piers—Miami, Fla.—The city has voted favorably on the issue of bonds for a deep-water channel and a basin with piers, etc. Arrangements are now being made for the sale of the bonds, and bids for construction work probably will be asked in August. The work is under the direction of the Harbor Committee of the City Council. Isham Randolph, Chicago, is Consult. Engr.

✚Levee Work—Vicksburg, Miss.—The contract for about 519,000 cu.yd. of levee work from Opossum Point to Wilson Point, has been awarded by the Mississippi River Commission of the Third District to N. C. WILLIAMSON & CO., Milliken, La., at 1487c. per cu.yd.

Drainage—White Castle, La.—The citizens have voted $60,000 in bonds for the construction of a drainage system. Danby & Waddill, New Orleans, has prepared plans. S. M. Levy is Secy. of the Drainage Dist.

✚Drainage—Selmer, Tenn.—According to press reports the contract for the construction of the Big Owl Creek Drainage Canal, in the southern portion of McNairy County, has been awarded to the TUPELO DREDGING CO., Tupelo, Miss., at 66⅔c. per cu.yd. Noted Apr. 29.

Ditch—Canton, Ohio—Bids will be received by C. L. Stoner, County Clk., until July 21, for constructing Domer Ditch in Canton.

Bathhouse—Cincinnati, Ohio—Bids will be received until noon, July 13, by Philip Fosdick, Dir. of Pub. Ser., City Hall, for the construction of a bathhouse at Spring and East 13th St. Noted Apr. 8.

Iron Fencing—Cleveland, Ohio—See item under "Bridges."

✚Steamer Improvements—Cleveland, Ohio—The contract for the improvement of four steamers of the Erie Line has been awarded to the AMERICAN SHIPBUILDING CO., 2017 Superior Viaduct, Cleveland, Ohio. Estimated cost, $60,000.

Revetment Wall—Columbus, Ohio—Bids will be received by John I. Miller, State Supt. of Pub. Wks., until July 12 for constructing concrete revetment wall along the south shore of Indian Lake.

Ditch—Defiance, Ohio—The citizens will vote July 19, on the question of issuing $17,500 in bonds for constructing Dry Creek Ditch No. 434. Roger Daoust is County Audr. Noted Mar. 18.

Ditch—Sidney, Ohio—The city plans to sell $24,200 in bonds for ditch improvements. George P. Staley is County Audr.

Levee Work—Alton, Ill.—It is reported that bids will be received by the East Side Levee and Sanitary District Board until July 12 for completing the levee front along the Mississippi River. The work requires about 800,000 cu.yd. of material.

Pumping Station—Quincy, Ill.—Bids will be received until July 21 by the Board of Supervisors of Fabrius River Drainage District, Illinois State Bank of Quincy, for the construction of a steam-driven pumping plant, containing two 42-in. centrifugal pumps, normal capacity 46,000 gal. per minute against a maximum static pumping head of 15 ft.

Jail Equipment, Etc.—Butte, Mont.—The County Commissioners have decided to hold an election on July 27, for the purpose of voting $100,000 in bonds for the installation of jail equipment in the court house and for improving the grounds.

Dike and Sluiceway—Myers, Mont.—Bids will be received until 2 p.m., July 15, by the Directors of the Rancher Ditch Co., for the construction of a brush-filled dike and concrete sluiceway. J. O. Crandall is Secy.

Improvement to Creek—Kansas City, Mo.—Curtis Hill, City Engr., has completed plans for carrying off the flood waters of Turkey Creek. If these plans are accepted by the City Council it will be necessary to raise the railroad tracks in several places from three to six feet. The work would cost about $400,000.

Drainage—Corpus Christi, Tex.—It is reported that the citizens have voted $158,000 in bonds for the drainage of about 96,000 acres.

Dry Dock—Galveston, Tex.—According to press reports work will soon be started on the construction of a dry dock. Estimated cost, $500,000.

Drainage—Victoria, Tex.—At an election held June 23 the city voted in favor of the question of issuing $190,500 in bonds, the proceeds of which will be used for the construction of a drainage system in Victoria County Drainage District No. 3. Noted Feb. 11 and June 24.

Sea Wall—Seattle, Wash.—Bids will be received about July 13 for the construction of a sea wall along Railroad Ave. Estimated cost, $92,083. A. H. Dimock is City Engr. Noted Apr. 1.

✚Dredging—Los Angeles, Calif.—The Harbor Commission has awarded the contract for dredging 115,000 cu.yd. at municipal dock No. 1, to the STANDARD AMERICAN DREDGING CO., at $37,869.

Levees—Sacramento, Calif.—The State Corporation Commissioner has granted permission to the West Side Levee Co. to sell $150,000 in bonds for reconstructing levees from Knights Landing to Colusa. E. L. Low is interested.

Ship Yard—Stockton, Calif.—The Island Transportation Co. has purchased Wood Island and plans to construct a ship yard to cost about $50,000. Capt. Benjamin Walters is interested.

✚Lake—St. John, N. B.—The contract for the construction of an artificial lake adjacent to the Jordan Memorial Sanitarium has been awarded by the Commissioners to F. L. BOONE, St. Mary's, York, N. B., at about $20,000.

Improvements to Creek—Ridgeville, Ont.—Bids will be received by A. N. Armbrust, Clk., until July 16 for widening, deepening and straightening Disher Creek. The contract will be let as a whole or in sections. L. A. Kinnear is Township Engr.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Amherst, Mass.—Bids are being received by James T. Ritchie, Arch., 8 Beacon St., Boston, Mass., for the construction of a 2½-story building for the Massachusetts Agricultural College. The estimated cost is $60,000.

✚Andover, Mass.—The contract for the construction of a 12-story, 48x60-ft. fraternity house for the A. U. V. Fraternity, Andover Academy, has been awarded to L. E. LOCKE, Bay State Bldg., Lawrence, Mass. Codman & Despradelle, 31 Beacon St., Boston, Mass., is Arch. The estimated cost is $40,000.

Boston, Mass.—Bids will be received by John F. Kelliher, State House Bldg., 505 State House, until noon, July 27, for the construction of an addition to the State House.

✚Dalton, Mass.—The contract for the construction of a $50,000 school addition has been awarded to JOHN DWYER. C. G. & E. C. Gardner, 33 Lyman St., Springfield, Mass., is Arch. George Allen is Supt. of Schools.

East Providence, R. I.—Plans have been prepared by John F. O'Malley, 75 Westminster St., Providence, R. I., for the construction of a naval armory for the Fourth Division of the Rhode Island Naval Battalion.

Providence, R. I.—Revised bids will be received by William R. Walker & Sons, 17 Custom House St., for the construction of a three-story, 90x125-ft. theater for the Empire Realty Co. The estimated cost is $125,000.

★Albany, N. Y.—Bids will be received until noon, July 27, by the Trustees of Public Buildings, Executive Chamber, Capitol, Albany, for the construction of additions and alterations to the State House on Eagle St. The estimated cost is $350,000. Lewis F. Pilcher, Capitol, Albany, is State Arch. Noted Apr. 1 and May 6.

Buffalo, N. Y.—Bids will be received until July 9 for the construction of a hospital. The estimated cost is $600,000. A. Myer, White Bldg., is Chn. of City Hospital Comrs. Noted Apr. 24.

Harrison, N. Y.—Bids will be received until 3 p.m., July 10, by the Board of Education, for the construction of a high and grade school on Macon St. Peabody, Wilson & Brown, 389 Fifth Ave., New York, is Arch. Estimated cost, $40,000. Noted May 13.

New York, N. Y.—(Borough of Brooklyn)—The Directors of the Williamsburgh Hospital plan to construct a six-story building at South Ninth St. and Driggs Ave. The estimated cost is $150,000. Jacob Dangler and Hugh DeHaven are Dirs.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Gronenberg & Leuchtag, Arch., 303 Fifth Ave., for the construction of a six-story, brick and terra cotta apartment house at St. Nicholas Ave. and 157th St. for the Lehigh Building Co. The estimated cost is $215,000.

✚New York, N. Y.—(Borough of Manhattan)—The contract for the construction of a one-story, 125x165-ft. brick and terra cotta market house at Broadway and 95th St. for Vincent Astor has been awarded to JAMES McWALTERS & SON, INC., 1493 Broadway, New York. Estimated cost, $150,000. Noted June 17.

✚New York, N. Y.—(Borough of Manhattan)—The contract for the construction of the Central Club for Nurses at 132-138 East 45th St. for the Y. W. C. A., has been awarded to the WHITNEY CO., 1 Liberty St., New York. The estimated cost is $400,000. Parish & Schroeder, 12 West 31st St., is Arch. Noted June 10.

New York, N. Y.—(Borough of Manhattan)—Julius Tishman & Sons has purchased a site at 156-164 East 79th St. upon which to construct a 13-story apartment house.

✚New York, N. Y.—(Borough of Manhattan)—The CHARLES MEAD & CO., 38 Park Row, New York, has been awarded the general contract for the alterations to the Metropolitan Hospital, Blackwells Island. Estimated cost, $50,000. Charles B. Meyers, 1 Union Sq., is Arch. Noted June 3.

✚New York, N. Y.—(Borough of Manhattan)—The WHITNEY CO., 1 Liberty St., New York, has been awarded the contract for the construction of the Central Y. W. C. A. building at 53d St. and Lexington Ave. Estimated cost, $350,000. Donn Barber, 101 Park Ave., is Arch. Noted June 10.

Troy, N. Y.—Bids will be received about July 15 by Louis N. Milliman, Arch., Stoll Bldg., for the construction of a two-story, 150x300-ft. building for Rensselaer County Tuberculosis Hospital.

Troy, N. Y.—Bids are being received by W. E. Clark, Arch., Cannon Pl., for the construction of a two-story, 30x61-ft. nurses' home for Leonard Hospital. The estimated cost is $60,000. Noted Dec. 3.

Utica, N. Y.—Bids will be received until 8 p.m., July 13, by Frank P. Winant, Pres., of Bd. of Education, for the construction of a two-story, 128x200-ft. grade school at Warren and Court St. The estimated cost is $120,000. George & Ames, 70 Genesee St., is Arch. Noted Apr. 15 and May 6.

Elizabeth, N. J.—Plans have been prepared by C. Godfrey Poggi, Arch., 2 Julian Pl., for the construction of the Elmora Public School on Magie St. The estimated cost is $52,000. Noted Apr. 22.

✚Newark, N. J.—The contract for the construction of an administration building in Branch Brook Park for the Essex

County Park Commission has been awarded to the E. M. WALDRON CO., 84 South Sixth St., Newark, at $62,271. Noted June 3 and July 1.

✚**Newark, N. J.**—The general contract for the construction of a school on Oliver St. has been awarded to FREDERICK FATZLER, 810 Broad St., Newark, at $63,341. Noted Feb. 18 and May 13.

✚**Ridgewood, N. J.**—ARTHUR McMULLEN CO., 149 Broadway, New York, N. Y., and the CORNING BUILDING & CONSTRUCTION CO., Corning, N. Y., have been awarded the general contract for the construction of a station on Ridgewood Ave. for the Erie R.R., 50 Church St., New York, N. Y. Estimated cost, $160,000.

Elizabethtown, Penn.—Bids are being received by Guy King & Co., Arch., 1513 Walnut St., Philadelphia, for the construction of a three-story, 35x100-ft. hospital for the Philadelphia Free Masons. Noted June 3.

Lansford, Penn.—Bids will be received until July 15 by John T. Simpson, Civil Engr., Essex Bldg., Newark, N. J., for the construction of a school. The estimated cost is $50,000.

Philadelphia, Penn.—(Official)—Bids will be received until 1:30 p.m., July 9, by the Property Committee of the Board of Education for the construction of a school at 65th Ave. and Lime Kiln Pike, East Germantown. Noted June 24.

✚**Philadelphia, Penn.**—The general contract for the construction of a one- and two-story recreation building at Price and McMahon St. has been awarded to F. W. VAN LOON, Denckla Bldg., Philadelphia, at $87,971. Noted July 1.

Philadelphia, Penn.—Plans are being prepared by Horace Trumbauer, Arch., Land Title Bldg., for the construction of a two-story, 190x300-ft., brick building at 33rd and Wallace St. for the Philadelphia Skating Rink Co.

Pittsburgh, Penn.—Bids will soon be received for the construction of a community house for the First United Presbyterian Church on Perrysville Ave. The estimated cost is $300,000.

Pittsburgh, Penn.—Plans have been prepared by E. B. Lee, Arch., Pittsburgh Savings Bank Bldg., for the construction of an eight-story addition to the Pittsburgh Hospital. The estimated cost is $125,000. J. B. Lawler, East End Savings & Trust Bldg., is Secy., Bd. of Trustees. Noted Apr. 15.

✚**Rankin Station, Penn.**—(Braddock post office)—The HODDER CONSTRUCTION CO., Braddock, has been awarded the general contract for the construction of a two-story school. The estimated cost is $75,000.

Wilmington, Del.—Bids will soon be received by the Board of Education for the construction of a four-story, 85x133-ft. school. The estimated cost is $150,000. Wallace E. Hance, 204 West 24th St., is Arch. Noted May 6.

✚**Baltimore, Md.**—The general contract for the construction of a church for St. Luke's congregation has been awarded to C. C. WATTS, 113 West Hamilton St., Baltimore. Estimated cost, $50,000. Rev. Atville Connor, 1118 Penrose Ave., is Pastor.

Baltimore, Md.—The members of the City Club contemplate the construction of a store, office and club building. The estimated cost is $250,000.

Abington, Va.—Plans have been prepared by R. H. Hunt, Arch., James Bldg., Chattanooga, Tenn., for the construction of buildings at Stonewall Jackson College. The estimated cost is $125,000. W. M. Hunter, Williamsburg, is interested.

✚**Charlottesville, Va.**—The University of Virginia has awarded the contract for the construction of a hospital to the KING LUMBER CO., Charlottesville. Estimated cost, $50,000. Noted Apr. 8.

Lexington, Va.—Tentative plans have been prepared by Bertram G. Goodhue, Arch., 2 West 47th St., New York, for the construction of the Jackson Memorial Hall at Virginia Military Institute. Estimated cost, $80,000.

Roanoke, Va.—Plans are being prepared by N. T. Wingfield, Arch., Charlottesville, for the construction of a brick and stone building for the Melrose Baptist Church. The estimated cost is $50,000.

Ashland, W. Va.—An election will soon be held to vote on the question of issuing $125,000 in bonds. The proceeds will be used for the construction of a city hall, jail and market house.

Berkeley Springs, W. Va.—According to press reports a site has been purchased upon which a hotel will be constructed estimated to cost $100,000. Alexander McNeil is interested.

✚**Charleston, W. Va.**—The Woodrum Home Outfitting Co. has awarded the contract for the construction of a six-story reinforced-concrete building to C. W. McNULTY, Huntington. Estimated cost, $85,000.

Fairmont, W. Va.—Henry Schmulbach, Wheeling, plans to construct a five-story brick building at Madison St. and Park Ave. The estimated cost is $75,000.

✚**Glenville, W. Va.**—LONGEST & TESSIER, Greensboro, N. C., has been awarded the contract for the construction of a dormitory at the State College. Estimated cost, $40,000. Noted June 10.

✚**Huntington, W. Va.**—The contract for the construction of a Science Hall at Marshall College has been awarded to LONGEST & TESSIER, Greensboro, N. C., at $48,600. Noted June 10.

✚**Morgantown, W. Va.**—The contract for the construction of Mechanical Hall and School of Medicine at the West Virginia University has been awarded to P. Q. SHRAKE & SON, New Matamoras, Ohio, at $57,000. Noted June 10.

Camden, S. C.—Henry Savage, Camden, and Joseph B. Cocker, Boston, Mass., plan to construct a bank and office building at Broad and DeKalb St. Estimated cost, $40,000.

Pacolet, S. C.—The Pacolet Mfg. Co. plans to expend about $125,000 for the construction of buildings. V. M. Montgomery is Pres.

Albany, Ga.—Bids will be received about July 15 for the construction of an auditorium. The estimated cost is $45,000. Noted June 24.

Savannah, Ga.—An election will soon be held to vote on the question of issuing $400,000 in bonds, the proceeds of which will be used for the construction of schools.

Seabreeze, Fla.—Plans have been prepared by [illegible] & Sheftall, Arch., 210 Clark Bldg., Jacksonville, for the construction of a two-story, 70x144-ft. fireproof school. The estimated cost is $50,000.

✚**Tampa, Fla.**—LOGAN BROS., Tampa, has been awarded the contract for the construction of two junior high schools. The estimated cost is $40,000. Hagy & Parslow is Arch.

✚**Tampa, Fla.**—The Board of Public Instruction has awarded the contract for the construction of the Tampa Heights School to G. A. MILLER, Tampa. Estimated cost, $45,000.

Ybor City, Fla.—The Board of Public Instruction will award the contract July 19 for the construction of a 100x150-ft. brick school. The estimated cost is $40,000.

Anniston, Ala.—The members of Anniston Lodge No. 443, F. and A. M., plans to construct a seven-story, reinforced-concrete store, lodge and office building at Willmer Ave. and 11th St. The estimated cost is $75,000.

Clarksdale, Miss.—At a recent election the citizens voted in favor of the question of issuing $150,000 in bonds, the proceeds of which will be used for the construction of schools. Noted June 3.

Bogalusa, La.—An election will soon be held to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for the construction of schools, a city hall and jail.

Nashville, Tenn.—Contracts will be awarded about Aug. 1 for the construction of a three-story, 80x164-ft. brick and stone school to be known as the Elliott School. The estimated cost is $45,000. Noted June 11.

Louisville, Ky.—(Official)—Bids will be received until July 22 by Arthur Loomis and Julius Hartman, Arch., Todd Bldg., for the construction of a four-story, reinforced-concrete and terra cotta mercantile building on Fourth near Guthrie St. for the Speed Realty Co. Estimated cost, $200,000. Noted May 13.

Akron, Ohio—Bids will be received about July 15 by B. L. Bargar, Secy., State Armory Bd., New Hayden Bldg., Columbus, for the construction of a three-story, 115x165-ft. auditorium and armory. The estimated cost is $100,000. Harpster & Bliss, Nantucket Bldg., Akron, and Karl I. Best, Hayden Bldg., Columbus, are Assoc. Archs. Noted June 10.

Akron, Ohio—Plans have been prepared by Lauer & Young, Arch., I. O. O. F. Bldg., for the construction of a two-story church for the North Hill M. E. congregation. The estimated cost is $40,000. A. T. Foster, 16 West Tallmadge Ave., is Pastor.

✚**Akron, Ohio**—The general contract for the construction of a one-story, 60x150-ft. church for St. Mary's Congregation has been awarded to the CARMICHAEL CONSTRUCTION CO., 526 Hamilton Bldg., Akron. The estimated cost is $75,000.

Athens, Ohio—F. L. Packard, Arch., 16 East Broad St., Columbus, is preparing plans for the construction of a dormitory for girls at the Ohio University. The estimated cost is $120,000. Alston B. Ellis is Pres.

✚**Bellaire, Ohio**—R. R. KITCHEN & CO., 891 National Bank Bldg., Wheeling, W. Va., has been awarded the general contract for the construction of a three-story bank, office and apartment building for the Farmers and Merchants National Bank. The estimated cost is $40,000. Charles W. Bates, Wheeling, W. Va., is Arch.

Canton, Ohio—Preliminary plans are being prepared by William S. Epperson, Arch., 10 North Cleveland Ave., for the construction of a church for the Lutheran congregation. The estimated cost is $40,000. G. M. Schmucker, 722 Bluff Rd., is Pastor.

Cincinnati, Ohio—Bids will be received until noon, July 30, by the Commissioners of Hamilton County, Courthouse, Pioneer St. and Broadway, for alterations to the north wing of the City Work House, known as the "Women's Cell House" on Colerain Ave. Fred D. Wesselmann is Pres. of Hamilton County Comrs.

Cincinnati, Ohio—Plans are being prepared by Louis G. Ditto, Arch., 617 Provident Bank Bldg., for the construction of an addition to the club house of the Cincinnati Aerie of Eagles No. 142. Harry E. McVeigh is Chn.

✚**Cleveland, Ohio**—The contract for the construction of an apartment building at 4311 Prospect Ave. for the Cleveland Realty Owners Co. has been awarded to the B. W. CONSTRUCTION CO., 10 South LaSalle St., Chicago, Ill. The estimated cost is $160,000. Noted May 20.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received about July 15 by F. W. Striebinger, Arch., Euclid Bldg., Cleveland, for the construction of a four-story, 80x154-ft. building for the Cleveland Heights Masonic Temple Co. Estimated cost, $100,000. C. L. Murfey, National Commercial Bank Bldg., is Chn. of Finance Com. Noted Mar. 11.

✚**Columbus, Ohio**—JOHN W. HECKERT, Ruggery Bldg., Columbus, has been awarded the general contract for the construction of a seven-story, brick store and office building at 60 Gay St. for the Peters Realty Co. The estimated cost is $100,000. Charles M. Peters, Gift and Curbertson St., is Pres. Noted Feb. 18.

Dayton, Ohio—Plans are being prepared by Pretzinger & Mussellman, Arch., for the construction of a brick lodge building on South Main St. for the Order of Eagles. Estimated cost, $70,000. Noted June 17.

Richwood, Ohio—Bids will be received about July 15 by G. M. Howard, Clk., Bd. of Education, for the construction of a two-story school. The estimated cost is $49,000. Noted under Richmond, Ohio, June 24.

✚**Steubenville, Ohio**—JOHN METCALF, Fifth and Market St., Steubenville, has been awarded the general contract for the construction of a three-story, 48x180-ft. motion picture theater and office building for Frank Dementros, 114 South Fourth St. The estimated cost is $50,000. Noted Jan. 28.

Detroit, Mich.—Bids will be received until July 12 for the construction of a three-story club house for the B. P. O. E. No. 34. The estimated cost is $250,000. Harmon Hunt, Elks' Temple Bldg., is Chn. of Bldg. Com. Noted Feb. 11.

Grand Rapids, Mich.—The Grand Rapids Savings Building Co. plans to construct a 13-story office building at Monroe and Ionia Ave. Estimated cost, $400,000. William Alden Smith is Pres.

Grand Rapids, Mich.—The Trustees of Calvin College plan to construct a main building and dormitory. The estimated cost is $125,000.

Grand Rapids, Mich.—The Goodspeed Co. will construct an office building at Monroe Ave. and Pearl St. The estimated cost is $175,000.

Lake Linden, Mich.—Tne Board of Education of Fractional District No. 1, Schoolcraft and Torch Lake Townships, is considering the construction of a high school. The estimated cost is $100,000.

✚Chicago, Ill.—(Official)—The contract for the structural steel work for the freight house at Polk St., for the Pennsylvania R.R. has been awarded to the THOMPSON-STARRETT CO., Chicago, Ill. A. C. Shand, Philadelphia, is Ch. Engr.

✚Chicago, Ill.—JOHN GRIFFITHS & SON CO., 112 West Adams St., Chicago, has been awarded the general contract for the construction of a 12-story, fireproof office building at Dearborn and Randolph St. for E. Eiger & Bros., 1249 Wabash Ave. The estimated cost is $375,000. Noted Mar. 4.

✚Chicago, Ill.—The general contract for the construction of a theater, store and office building at Milwaukee and North Sawyer Ave. for G. H. Gotteschalk & Co., 111 West Washington St. has been awarded to OLSON BROS., 6200 Evans Ave., Chicago. The estimated cost is $130,000.

Chicago, Ill.—E. N. Bertha, 6 East Lake St., plans to construct an apartment house at Stony Island Ave. and 16th St. The estimated cost is $175,000.

Chicago, Ill.—The Birmingham & Seaman Co. will construct a seven-story, 100x150-ft. reinforced-concrete building at 411-23 West Orange St., between Orleans and Kingsbury St. The estimated cost is $140,000.

Danville, Ill.—Contracts will be awarded about Aug. 15 for the construction of a four-story, 75x150-ft. Masonic Temple. The estimated cost is $150,000. Noted June 24.

✚Joliet, Ill.—The general contract for the construction of a four-story, fireproof office building at Van Buren and Chicago St. for J. W. D'Arcy has been awarded to the WILLIAM CRILLY CO., 35 South Dearborn St., Chicago. The estimated cost is $125,000. Noted Mar. 4.

Moline, Ill.—At a recent election the citizens voted in favor of issuing $75,000 in bonds, the proceeds of which will be used for the construction of a high school.

Ottawa, Ill.—Plans are being prepared by Jason F. Richardson, Arch., for the construction of a 2½-story, 125x240-ft. building for the Illinois Valley Hospital. The estimated cost is $75,000.

Springfield, Ill.—The State Legislature has passed a bill appropriating $100,000 for the construction of a memorial building. Estimated cost, $1,000,000. Noted Dec. 24.

✚Chilton, Wis.—The contract for the construction of a church for St. Mary's congregation has been awarded to the IMMEL CONSTRUCTION CO. The estimated cost is $45,000.

Chippewa Falls, Wis.—Plans are being prepared by C. H. Johnston, Arch., 715 Capitol Bank Bldg., St. Paul, Minn., for the construction of a three-story administration building. The estimated cost is $50,000.

De Pere, Wis.—The Trustees of St. Norbert's College plan to construct a school. The estimated cost is $60,000.

Milwaukee, Wis.—The members of the University Club voted to purchase a site at Oneida St. and Juneau Ave. for the construction of a club house. The estimated cost is $225,000. Robert E. Friend is Chn. of Bldg. Com.

Milwaukee, Wis.—The Wisconsin National Guard contemplates the construction of an armory. The estimated cost is $50,000. D. A. Stearns, Monroe, is Col.

Milwaukee, Wis.—Plans are being prepared by R. Messmer & Bro., Arch., for the construction of a three-story, reinforced-concrete and brick hall for the Moritz Arndt Lodge, I. O. O. F. The estimated cost is $45,000. Noted May 2.

Stevens Point, Wis.—Bids will be received until July 31 by Van Ryn & De Gelleke, Arch., Caswell Blk., Milwaukee, for the construction of a three-story, 68x159-ft. brick dormitory at the State Normal School. The estimated cost is $85,000. William Kittle, Madison, is Secy., Bd. of Normal Regents. Noted May 13 and 27.

✚Ames, Iowa—The contract for the construction of a nurses' lodge at the Michigan Soldiers Home has been awarded to the HAUSER-OWEN AMES CO., Ames, at $66,030.

Armstrong, Iowa—The Joseph Bass Co., Faribault, Minn., submitted the lowest bid for the construction of a two-story school. Estimated cost, $50,000. William Stuart is Pres., Bd. of Education. Noted June 10.

✚Cedar Rapids, Iowa—The general contract for the construction of a one-story church for the Bohemian Presbyterian congregation has been awarded to BROWNS & MATTAS, Cedar Rapids. The estimated cost is $40,000. W. Jones, 30 North La Salle St., Chicago, Ill., is Arch.

Forest City, Iowa—(Official)—The Independent School District will not receive bids for some time for the construction of a three-story high school as mentioned in the issue of June 10. Noted May 6 and June 10.

Woodward, Iowa—(Official)—Bids will be received until July 14 by the Board of Control for the construction of buildings at the State Colony for Epileptics. The estimated cost is $100,000. Noted June 14.

Austin, Minn.—Kinney & Macomber, Arch., 1004 Plymouth Bldg., Minneapolis, is preparing plans for the construction of a one-story, 96x155-ft. school. The estimated cost is $40,000.

✚Fairmont, Minn.—The general contract for the construction of a two-story, brick high school has been awarded to the A. M. WOLD CONSTRUCTION CO., Brookings, S. D. The estimated cost is $135,000. C. A. Porter is Secy., Bd. of Education. Noted June 17.

Minneapolis, Minn.—The Board of Education plans the expenditure of $480,000 for the construction of schools. The buildings will include a 12-room addition to the John Ericson School, $75,000; a 12-room addition to Hiawatha School, $75,000; an eight-room addition to the Whitney School, $50,000; and an eight-room addition to the Corcoran School, $50,000.

✚St. Paul, Minn.—The contract for the construction of a three-story, reinforced-concrete and brick addition to St. Lukes Hospital has been awarded to the BOYD CONSTRUCTION CO., St. Paul. The estimated cost is $80,000. Noted Mar. 18.

Emporia, Kan.—Bids will be received until 1:30 p.m., July 12, for the construction of a three-story addition and alterations to the Masonic Temple. Charles W. Cleaver is Secy.

✚Winfield, Kan.—WILLIAM FRANKENFELD, Enid, Okla., at $52,500, has been awarded the general contract for the construction of a dormitory for St. John's College. A. W. Meyer is Pres. Noted Mar. 18.

✚Hastings, Neb.—C. D. RICHEY, Hastings, has been awarded the general contract for the construction of a building for the M. E. Church. The estimated cost is $60,000. Fulton & Butler, Uniontown, Penn., is Arch.

Omaha, Neb.—John H. Harte, 1609 Webster St., submitted the lowest bid on the general contract for the construction of a six-story, store and office building at 16th and Farnum St. for the Rose Realty Co., 210 State Bank Bldg. The estimated cost is $300,000. Noted Apr. 8.

Schuyler, Neb.—Plans are being prepared by Grabe & Helleberg, Arch., Columbus, for the construction of a two- and three-story high school. The estimated cost is $45,000. O. Luelow is Secy., Bd. of Education.

Yankton, S. D.—Bids will be received until July 15 by Miller, Fullenwider & Dowling, Arch., 6 North Michigan Ave., Chicago, Ill., for the construction of a two-story, 105x150-ft., fireproof high school. The estimated cost is $100,000. M. M. Bennett is Pres., Bd. of Education. Noted Feb. 25.

Miles City, Mont.—Bids will soon be received for the construction of a two-story addition to the high school. The estimated cost is $60,000. J. B. Collins is Clk., Bd. of Education. Noted June 3.

✚Jefferson City, Mo.—The general contract for the construction of the Missouri State Capitol has been awarded to JOHN GILL & CO., Citizens Bldg., Cleveland, Ohio. The estimated cost is $4,000,000. Cornelius Roach is State Secy.

Richmond, Mo.—Bids will soon be received for the construction of a two-story, 65x130-ft. church for the M. E. congregation. The estimated cost is $45,000. Eckel & Aldrich, Corby-Forsee Bldg., St. Joseph, is Arch.

✚St. Joseph, Mo.—The contract for the construction of a five-story, 41x162-ft. building for the Methodist Episcopal Deaconess Hospital has been awarded to the J. E. LEHR BUILDING & CONSTRUCTION CO., 1710 Fred Ave., St. Joseph. The estimated cost is $350,000. J. J. Bentley, Seventh and Jole St., is Chn. of Bldg. Com. Noted Mar. 18.

Beaumont, Tex.—Plans are being prepared by C. D. Hill & Co., Arch., Galveston, for the construction of a 60x145-ft. fireproof theater and office building at 500 Pearl St. for C. N. Blanchette and Lynn Gilbert. Estimated cost, $90,000.

El Paso, Tex.—Bids will be received about Aug. 1 by the Commissioners of El Paso County for the construction of a five-story courthouse. The estimated cost is $400,000. Trost & Trost is Arch. Noted May 6.

Tulsa, Okla.—R. F. Morley will construct a five-story reinforced-concrete building on Cincinnati Ave., between Third and Fourth St. Estimated cost, $100,000.

✚Albuquerque, N. M.—The contract for the construction of a Y. M. C. A. building has been awarded to J. W. McQUADE, Alburquerque, at about $57,000. Shattuck & Hussey, 19 South La Salle St., Chicago, Ill., is Arch. Noted June 24.

Reno, Nev.—The Reno Amusement Co. will construct a theater estimated to cost about $50,000. R. L. Fulton is interested.

Douglas, Ariz.—(Official)—Bids will be received about July 30 for the construction of two grade schools. Lescher & Kibbey, Arch., Phoenix, prepared the plans. Estimated cost, $70,,000. Noted June 3.

Florence, Ariz.—(Official)—Bids will be received about July 15 for the construction of the Florence Union High School. Lescher & Kibbey, Phoenix, is Arch. Noted June 3.

Olympia, Wash.—Watson & Vernon, Arch., Aberdeen, is preparing plans for the construction of a building at the Girls' Training School. Estimated cost, $45,000. Noted Mar. 25.

✚Portland, Ore.—The contract for the construction of a building at 12th and Taylor St. for the First Methodist Episcopal Church has been awarded to J. A. Backstrand, Portland. The estimated cost is $40,000. Noted May 6.

✚Hydepark, Calif.—H. M. BOWARD & SONS CO., 274 South Flower St., Los Angeles, at $43,682, has been awarded the contract for the construction of grammar school buildings at Hydepark. G. A. Howard, Jr., Brant Bldg., is Arch. Noted June 3.

✚Winnipeg, Man.—The Winnipeg School Board has awarded the contract for the construction of the two-story George V school in Elmwood to the WORSWICK BROS., 123 Hart St., Winnipeg, at $41,299.

✚Victoria, B. C.—The contract for the construction of an observatory on Little Saanich Mountain has been awarded to the McALPINE-ROBERTSON CO., Vancouver, at $75,000.

Moncton, N. B.—The Town Council will construct a city hall at an estimated cost of $50,000.

Contracts to Be Let

Bids received until Aug. 4, 1915.

Strauss Trunnion Bascule Bridge

Matawan, N. J.

Sealed proposals for the furnishing of all labor, tools and materials for the construction of a Strauss Bascule Trunnion Bridge, over Matawan creek, on the road from South Amboy to Keyport, in the County of Monmouth, State of New Jersey, in accordance with the plans and specifications prepared therefor and heretofore approved by the Board of Chosen Freeholders of the County of Monmouth, State of New Jersey, will be received by the Board of Chosen Freeholders of the County of Monmouth, at their rooms, Court House, Freehold, New Jersey, on Wednesday, August 4, 1915, at the hour of eleven o"clock, in the forenoon of said day, and then and there publicly opened and read.

All proposals must be submitted in a sealed envelope, be endorsed with the name and address of the bidder and the name of the work bid on.

Plans and specifications can be seen on any day, excepting holidays and Sunday, between the hours of nine a.m. and four p.m., at the office of Gerofe D. Cooper, County Engineer, 60 Broad St., Red Bank, New Jersey; at the office of the Clerk of the Board of Chosen Freeholders of the County of Monmouth, Chas. E. Close, 41 Main Street, Matawan, N. J.; and at the office of the Collector of the County of Monmouth, Court House, Freehold, N. J., or can be obtained upon application to the Strauss Bascule Trunnion Bridge Company, 104 South Michigan Avenue, Chicago, Ill.

All proposals must be accompanied by a certified cheque, drawn in the sum of five thousand dollars ($5000.00) to the order of the Collector of the County of Monmouth, New Jersey, or a bid bond, for said amount of five thousand dollars, given by a surety company authorized to do business in the State of New Jersey, to said Collector.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids, if deemed to the best interests of the County of Monmouth so to do.

Each bidder must submit with his or their bid a certificate that he or they have visited the location of the proposed work and have made themselves acquainted with the local conditions in connection therewith, and that his or their bid is submitted in strict compliance with the requirements of Chapter 253, Laws of New Jersey, 1913.

Any proposal not complying with the above requirements or the requirements of the specifications as to the submission of bids or proposals will not be considered by the Board of Chosen Freeholders of the County of Monmouth.

No proposals will be received before the hour advertised to receive same, nor will any proposals be received after the hour advertised to receive same.

J. M. CORLIES, Director of Board.

Attest:
C. E. CLOSE, Clerk of Board.

Bids received until July 27, 1915.

Public Highway

DEPARTMENT OF PUBLIC FINANCES.
Accounting Division, City of New Orleans.
New Orleans, La., June 23rd, 1915.

Pursuant to Ordinances Nos. 2440 and 2453 C. C. S., sealed proposals will be received at this office until the hour of 11 o'clock A.M., Tuesday, July 27th, 1915, for the construction of a public highway from a point connecting with the existing Chef Menteur Road, in the vicinity of Chef Menteur, and thence to the Rigolets, in accordance with plans and specifications on file in the office of the City Engineer. Deposit $1000.00 with the City Treasurer, and his receipt enclosed with bid. Bond in an amount equal to twenty-five per cent. of the estimated cost of the work based on the price bid in the proposal. The City Engineer will furnish bidders with a blank form of proposal; no proposal will be considered unless submitted on such form. Bidders must have paid their City License in order that their bids may be accepted.

The City reserves the right to reject any and all bids.

A. G. RICKS, Commissioner.

Bids received until July 13 and 15, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Tuesday, July 13th, 1915, for the improvement of highways in the following counties and also for the following repair contracts:

Broome (approx. 3.15); Chenango (2 highways 7.78; 4.02); Jefferson (2 highways 2.86; 2.40); Lewis (3 highways 2.00; 8.82; 1.27); Montgomery (approx. length 7.10); St. Lawrence (approx. length 5.50); Schoharie (approx. length 4.79); Schuyler (two highways 6.03; 1.11); Steuben (3 highways 9.09, 3.42, 7.31); Sullivan (approx. length 0.72); Tompkins (approx. 3.04); Westchester (approx. length 4.32); Wyoming (2 highways 1.53; 6.99); Delaware, 1 contract (resurfacing); Ontario, 1 contract (resurfacing); Suffolk, 1 contract (resurfacing).

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Streeet, Albany, N. Y., at 1 o'clock p.m. on Thursday, July 15th, 1915, for the construction and repair of highways in the following counties:

Broome, 1 highway (approx. length 0.91); 1 contract (resurfacing); Cattaraugus (approx. length 0.93); Chautauqua, 4 highways (1.51; 0.77; 3.55; 0.93); Cortland (approx. length 0.23); Erie, 2 highways (0.34; 0.59); Fulton (approx. length 2.12); Monroe, 1 highway (approx. length 1.53); 3 contracts (resurfacing); Montgomery (approx. length 3.81); Nassau (approx. length 1.57); Onondaga (approx. length 0.27); Ontario (approx. length 1.38); Otsego, 2 highways (12.66; 2.52); Rockland (approx. length 2.95); Suffolk (approx. length 3.25); Ulster (approx. length 2.97); Warren (approx. length 5.13); Steuben County (1 highway, approx. length 1.72 miles).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the offices of the Division Engineers in whose divisions the roads are to be constructed or repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

IRVING J. MORRIS, Secretary.

Bids received until Aug. 3, 1915.

Sewerage Construction

Paducah, Ky., June 28th, 1915.

Sealed proposals, endorsed "Proposals for Outfall Sewer, District No. 3, Contract No. 1," will be received by the Commissioner of Public Works, of the City of Paducah, at his office in the City Hall, until 10 A.M., Standard time, on Tuesday, August 3rd, when they will be publicly opened.

The work for which tenders are invited consists of completely constructing about 1650 feet of 10′ by 12′ horse-shoe conduit of reinforced concrete, or of brick, or of both materials.

Copies of information for bidders, proposal forms, contracts, specifications and contract drawings are on file in the office of the Commissioner of Public Works, and may be obtained upon deposit of Ten Dollars ($10.00), which sum so deposited will be refunded if said documents are returned within ten days following the opening of bids. Each bid must be accompanied by a certified check for Two thousand dollars ($2,000.00).

The Commissioner of Public Works reserves the right to reject any or all proposals and to waive informalities.

Payments will be monthly to the extent of 85% of the estimate of work accomplished, including an allowance for a reasonable stock of material on the work.

L. A. WASHINGTON,
Commissioner of Public Works.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

An **Important Inquiry**—The Public Service Commission, purchasing for the city of New York, will place the largest order for ties, ballast and rails and other track accessories for the new subway and elevated lines of the Dual System, that has ever been given by an American municipality. An idea of the magnitude of these contracts is obtained by the fact that the orders cover about 35,000 tons of 100-lb. open hearth rail; about 3000 tons of rolled manganese rail; over 1,000,000 tie plates; about 356,000 cu.yd. of broken stone ballast, and 30,000,000 ft. of ties and timber.

Besides the saving in cost to the city by placing the orders at the prevailing low prices, it is expected that considerable saving will be made in the handling of the material, in that the supply contractor is required to deliver the material directly to the contractors who will lay the track, thus eliminating any necessity for a city store yard.

The Commission is already advertising the contract for open hearth rail, bids for which will be opened July 16, and it is expected that advertisements will be ordered for bids to be opened by the end of July for the supply of the balance of the track materials.

The new materials are needed for the track-laying on all lines of the Dual System except the Fourth Ave. subway in Brooklyn and the Center St. Loop subway in Manhattan, which have been already equipped and the New Utrecht Ave. elevated line in Brooklyn for which the materials have been ordered. On the new lines of this system, to be owned by the city, there will be approximately 260 miles of single track railroad. In the Fourth Ave. subway and the Center St. Loop there are approximately 30 miles of single track, and as these tracks have already been laid there remains to be equipped about 230 miles upon other lines.

RAILWAYS—STEAM AND ELECTRIC

New York—New York State Ry.—This company plans to expend $200,000 for trackage improvements in Syracuse. B. E. Tilton, Syracuse, is Gen. Mgr.

Maryland—Cumberland Valley R.R.—According to press reports, this company plans to make extensive improvements, to include yards, at Hagerstown, Md. J. H. Tonge, Chambersburg, Penn., is Supt.

Virginia—Patrick Hogan, High Knobs, Va., is interested in the construction of a railway from Norton to High Knobs, about five miles.

Virginia—Lynchburg Traction & Light Co.—Plans are being prepared by this company to double-track its line on Main St., Lynchburg. J. W. Hancock, Lynchburg, is Gen. Mgr. and Pur. Agt.

West Virginia—Cherry River Southern Ry.—This company is securing the right-of-way and is making preliminary arrangements for the construction of its proposed railway from Curtin to Bays, W. Va., about 42 miles. E. H. Venable, Charleston, W. Va., is Ch. Engr. Noted Oct. 29.

West Virginia—Weston & Glenville Electric Ry.—Surveys are being made by this company for the construction of its proposed railway from Weston to Glenville. Lloyd Rinehart, Weston, is interested. Noted Oct. 22.

North Carolina—The Graham Lumber Co. is having surveys made for the construction of a railway from Murphy, N. C., to the timber lands of the company. W. C. Sandblin, Andrews, N. C., is Engr.

✚**North Carolina**—Linville River Ry.—This company has awarded a contract to W. S. WHITING, Elizabethton, Tenn., for the construction of a railway from Montezuma to Fascoe, N. C., about 12 miles.

Georgia—East Georgia Ry.—This company has been granted a charter to construct an interurban railway from Glenville to Adabelle, about 30 miles, with a branch from Hagan to Claxton. H. P. Talmage, C. J. Baldwin and E. Leffler are among the incorporators. Noted Apr. 8.

Florida—Orlando Interurban Traction Co.—According to press reports this company has abandoned the project to construct an electric railway to connect Orlando, Kissimmee and Sanford. Noted Apr. 17, 1913.

Florida—The Southern Investment Co. contemplates the construction of a railway from Placida to Venice, Fla., about 22 miles. Langbourne M. Williams, Richmond, Va., is Pres.

Alabama—Lauderdale Power Co.—This company has been incorporated to construct an electric railway from Florence to Huntsville, Ala., about 75 miles. Alan Jemmison, Birmingham, is Pres. Noted Mar. 25.

Louisiana—The Cady Lumber Co., McNary, La., is having surveys made for the construction of a railway to connect with the Texas & Pacific and the Rock Island lines at Lamourie, La.

Tennessee—Knoxville Ry. & Light Co.—Plans are being considered by this company to reconstruct its line on Cumberland Ave., from Ninth St. to the city limits of Knoxville. T. C. Kelly, Knoxville, is Supt. Ry.

✚**Tennessee**—Tennessee Ry.—A contract has been awarded by this company to J. C. RODES & CO., Franklin, for the extension of its line toward Petros, Tenn., about 11 miles.

✚**Kentucky**—Louisville & Nashville R.R.—This company has awarded a contract to GRANT MASON, Pineville, Ky., for the extension of its Martins Fork to Grays Branch.

Ohio—Dennis Dwyer, Dayton, is interested in the construction of an electric railway from Dayton to St. Marys.

Indiana—Evansville & New Harmony Traction Co.—This company has arranged with the M. A. Peoples Co., Chicago, Ill., for financing and constructing its proposed electric railway from Evansville to New Harmony, Ind., about 30 miles. C. J. Seibert, Evansville, is Gen. Mgr. Noted Dec. 3.

Illinois—Lincoln Ry. & Light Co.—Plans are being considered by this company for the reconstruction of its line on Union St. from Broadway to Tremont St. A. R. Thomas, Lincoln, is Mgr., Pur. Agt. and Supt.

Kansas—Hutchinson Interurban Ry.—The City Council of Hutchinson has granted a franchise to this company to extend its line on Second St. from Main St. to a point east of Walnut St. James E. Humbert, Hutchinson, is Gen. Mgr. and Pur. Agt. Noted July 1.

Kansas—Newton, Kansas & Nebraska Ry.—This company has been granted permission by the Kansas Public Utilities Commission to issue stock for the construction of its proposed railway from Newton through Harvey, McPherson, Dickinson, Saline, Clay and Washington Counties, about 142 miles.

Missouri—United Rys.—Plans are being prepared by the company for the reconstruction of its line on Olive St. from 14th St. to Boyle Ave., St. Louis. Robert McCulloch, St. Louis, is Pres., Gen. Mgr. and Pur. Agt.

Arkansas—According to press reports, A. V. Alexander, 317 West Second St., Little Rock, is interested in the construction of a railway from Yellville, Ark., to the Rush Creek mining district, about 14 miles.

Arkansas—Cache Valley R.R.—A movement has been started by the Chamber of Commerce of Paragould, Ark., to purchase this company's line, running from Sedgwick to Light, Ark., and to extend it to Paragould.

Arkansas—Cotton Plant & Southwestern R.R.—Plans are being considered by this company for the construction of a railway from Cotton Plant to Kramer, about 25 miles. E. C. Nelson and W. R. Satterfield, Helena, Ark., are interested.

Arkansas—Hoxie Electric Ry.—This company is preparing plans to revive the project to construct an electric railway from Hoxie to Calico Rock, Ark. J. W. Myers, Calico Rock, is interested. Noted Mar. 4.

Arkansas—Intercity Terminal Ry.—This company has been incorporated to construct an electric railway from Little Rock to Argenta, Ark. C. C. Kavanaugh is Pres., E. W. Jackson, Vice-Pres., and F. J. Schmutz, Secy.

✚**Arkansas**—Ozarks Ry.—The BLODGETT CONSTRUCTION CO., Kansas City, Mo., has been awarded the contract by this company for the construction of its railway from Mountain Home to Rothville townsite, about 15 miles.

Texas—Brownsville St. Ry.—Plans are being considered by this company for the extension of its line in Brownsville to a connection with the Rio Grande R.R. It is reported that the Rio Grande R.R., which runs from Brownsville to Point Isabel, about 22 miles, will be rehabilitated and equipped for electric transit.

Texas—Corpus Christi Ry. & Light Co.—This company proposes to extend its lines over a distance of four miles. D. R. Locher is Gen. Mgr.

Texas—Corpus Christi-Ward Island Interurban Ry.—This company has started preliminary arrangements for the construction of its proposed electric railway from Corpus Christi to Ward Island, about seven miles. J. H. Caswell, San Diego, Tex., is interested.

✚**Texas**—Oklahoma & Texas Southern Ry.—This company has awarded a contract to WARD & LEE, Floresville, Tex., for the construction of part of its proposed railway which will connect Denton and Buckburnette, Tex., and Ft. Smith, Ark., about 450 miles. W. R. Heagler, Potosi, Mo., is Ch. Engr. Noted June 10.

Oklahoma—Oklahoma Ry.—This company plans to reconstruct its line on Broadway and on East Fourth St., Oklahoma. George W. Knox, Oklahoma, is Vice-Pres. and Gen. Mgr.

California—The City Council of Los Angeles has authorized the Board of Public Works to advertise for bids on a street railway franchise on South Park Ave.

LIGHT, HEAT AND POWER

Belleville, N. J.—The Sleeth Mfg. Co., manufacturer of wire specialties, will build a new boiler house at its plant on Cortlandt St., Belleville.

✚**Newark, N. J.**—The Board of Education has awarded the contract for a heating plant in the new school on Oliver St. to JAMES F. KELLY, 126 South 14th St., Newark, at $20,466.

Spray, N. C.—The Thread Mills Co. is having plans prepared for the construction of a 3000-hp. electric power plant in Spray. F. P. Sheldon & Son, Industrial Trust Bldg., Providence, R. I., is Arch. and Engr.

Wake Forest, N. C.—An election will be held July 27 for the purpose of voting for a bond issue of $10,000, the proceeds of which will be used for the improvement and extension of the municipal electric-lighting system. J. L. Bullard is Supt. of the plant.

Orangeburg, S. C.—At an election held June 29 the citizens voted in favor of issuing $15,000 in bonds, the proceeds of which will be used for the improvement of the municipal electric-light plant. Noted June 17.

Clarksdale, Miss.—It is reported that the city has voted to issue $150,000 in bonds, a part of which will be used for the enlargement of the municipal electric-light plant. W. B. Perkins is Chn. of the Light Com.

Danville, Ky.—The Danville Electric Light & Power Co. plans an expenditure of $20,000 for the improvement of its plant

Henderson, Ky.—The Henderson Traction Co. is considering the improvement of its power plant.

Ashtabula, Ohio—Bids will be received until July 29 by Charles E. Peck, Clk., Bd. of Education, for the construction of a central heating plant for several school buildings.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 23, by the Board of Commissioners of Hamilton County for the removal of three boilers from the old Court House, Main and Sycamore St., Cincinnati, and installing the same in the Hamilton County Infirmary, Carthage, Cincinnati. Fred E. Wesselman is Pres. of the Bd.

Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, Room 511, City Hall, until noon, July 23, for furnishing fiber conduit for the municipal electric light department.

Cleveland, Ohio—(Official)—Bids will be received until 1 p.m., Aug. 2, by the Clerk of the Board of Education, Rockwell Ave. and East Sixth St., for new boiler and new steam fitting in the East Technical High School, Scovill Ave. and East 55th St. Frank G. Hogen is Dir. of Schools.

Troy, Ohio—The County Commissioners have approved the plans of C. F. Bowdle, Piqua, for the construction of an addition to the power plant at the courthouse. The estimated cost is $10,000.

Wellsville, Ohio—Bids will be received by J. F. McQueen, City Audr., until Aug. 7 for the purchase of $60,000 in bonds, the proceeds of which will be used for the construction of a municipal electric-light plant. Noted June 24.

†Batesville, Ind.—(Official)—See item under "Water Supply —Irrigation."

Greencastle, Ind.—Bids will be received until 2 p.m., July 21, by C. E. Talkington, Supt., Greencastle, for two engines, two 250-hp. boilers, two generators and accessories for the power plant at the State Farm.

North Vernon, Ind.—The city plans to install an additional engine and generator and to remodel the municipal electric-light plant at a cost of about $15,000. A. B. Berkshire is Supt.

Springfield, Ill.—Bids will be received until July 26 by Frank D. Whipp, State Fiscal Supvr., for the construction of power houses at the State Hospitals at Dunning and Elgin. James B. Dibelka, 130 North Fifth Ave., Chicago, is State Arch.

Lakefield, Minn.—Bids will be received until July 31 by the Village Recorder for the construction of an addition to the building of the municipal electric-light plant, and installing new equipment, including 125-hp. boiler, concrete chimney, generator, switchboard, etc. Earle D. Jackson, Capital Bank Bldg., St. Paul, is Consult. Engr. Noted July 1.

St. Paul, Minn.—Plans are being prepared by Charles L. Pillsbury, Minneapolis, for the construction of a power plant at St. Joseph's Hospital. The estimated cost is $50,000.

Warren, Minn.—Bids will be received until July 22 by G. O. Gross, City Recdr., for the construction of an addition to the municipal power house and installing some new equipment, including generator, switchboard, etc. Earle D. Jackson, St. Paul, is Consult. Engr. Noted July 1.

Canton, Kan.—Press reports state that work will soon be started on the construction of a power house and electric-light plant.

Larned, Kan.—Bids will be received until July 19 by the City Council for the construction of an electric-light plant. Worley & Black, 301 Reliance Bldg., Kansas City, Mo., is Engr.

Robinson, Kan.—At a recent election the citizens voted in favor of the question of issuing $10,000 in bonds, the proceeds of which will be used for the construction of a power plant and the installation of an electric-lighting system.

†Dakota, Neb.—It is reported that a contract for the construction of a municipal electric-light plant has been awarded to the JOHNSTON ELECTRIC CO., 1207 Harney St., Omaha. H. J. Ryan, Sioux City, Iowa, is Engr.-in-Charge.

Fullerton, Neb.—A bond issue of $28,000 has been voted, the proceeds of which will be used for the installation of a municipal electric-light plant.

Lincoln, Neb.—Bids will be received by L. Mathews, Secy., Bd. of Comrs., State Institutions, until 1:30 p.m., July 21, for the construction of an addition to the power plant at the State Penitentiary and Hospital for Insane.

Minot, N. D.—The Consumers Power Co. plans an expenditure of about $75,000 for the construction of an addition and alterations to the power house. It will also install additional boilers, engines and other machinery.

Cassville, Mo.—Press reports state that the Cassville Mill & Power Co. is considering the construction of a power house.

Drexel, Mo.—The City Council plans to install a municipal electric-light plant to cost about $10,000.

Pleasant Hill, Mo.—It is reported that the Rawls Electric Light & Power Co., successor to the Reader Co., plans the reconstruction of the light plant. The estimated cost is $10,000.

St. Joseph, Mo.—An election will soon be held to vote on the question of issuing $75,000 in bonds, the proceeds of which will be used for the improvement of the electric-light plant.

Brownwood, Tex.—The Central Texas Gas Co., recently organized with a capital stock of $150,000, will install natural-gas systems in a number of towns in the vicinity of Brownwood. The gas will be obtained from the Bangs field.

Bixby, Okla.—The City Council has decided to call an election to vote on the question of issuing $4000 in bonds, the proceeds of which will be used for the construction of a municipal electric-light plant.

Coeur d'Alene, Idaho—The City Council has authorized the Light Committee to ask the Public Utilities Commission for permission to build and operate a municipal electric-light plant.

Wallace, Idaho—John H. Wourms and associates have been granted a franchise for the installation of a gas plant in Wallace.

Tacoma, Wash.—Press reports state that the Tacoma Smelting & Refining Co. will construct a new power house. W. R. Rust is Pres.

Orillia, Ont.—The Orillia Water, Power & Light Commission is having plans prepared for the installation of an electric power system. C. E. Grant is Clk.

BRIDGES

Manchester, N. H.—The city contemplates the construction of a reinforced-concrete bridge at Elm St.

Winnisquam, N. H.—Storrs & Storrs, Concord, is preparing plans for the construction of a 450-ft. steel bridge with a concrete slab floor over the outlet of Lake Winnisquam. The estimated cost is $40,000.

†Springfield, Mass.—(Official)—The general contract for the construction of the Plainfield St. Bridge over the tracks of the Boston & Maine R.R. has been awarded to the JOHNSON-GIFFORD CO., 30 East 42d St., New York, N. Y., at $25,350. The contract for furnishing the structural steel has been awarded to the AMERICAN BRIDGE CO., 120 Franklin St., Boston, at $12,450. Noted June 24.

Kingston, N. Y.—The construction of a viaduct in Kingston is contemplated. The estimated cost is $97,489, to be borne by the city, the Ontario & Western and the Ulster & Delaware railroads and the state.

LaSalle, N. Y.—The Village Board contemplates the construction of a viaduct over the railroad tracks at Hamilton Ave. The estimated cost is $15,000.

Utica, N. Y.—Charles Kiehm, Consult. Engr., Utica, has been engaged to prepare plans for a bridge across the Mohawk River between Utica and Deerfield at North Genesee St. The estimated cost is $75,000. Noted July 1.

★Matawan, N. J.—(Official)—Bids will be received until 11 a.m., Aug. 4, by the Board of Chosen Freeholders of Monmouth County, Court House, Freehold, for the construction of a Strauss trunnion bascule bridge over Matawan Creek, on the South Amboy-Keyport Rd. George D. Cooper, 60 Broad St., Red Bank, is County Engr. Charles E. Close, 41 Main St., Matawan, is Clk. Bd. of Freeholders. Noted May 13 and July 8 under Keyport, N. J.

West Milton, Penn.—Press reports state that the Philadelphia & Reading Ry. will build a new bridge at West Milton to replace the present structure. A new site will probably be chosen in order to eliminate a dangerous curve at this point. The estimated cost of the bridge is $150,000. S. T. Wagner, Philadelphia, is Ch. Engr.

Wilkes-Barre, Penn.—The Luzerne County Court has approved the plans for the construction of the proposed bridge over the Susquehanna River at West Market St. The estimated cost is $500,000.

York, Penn.—Bids will be received until July 19 by F. S. Bartenschlager, Controller of York County, for the construction of an 80-ft. steel bridge over Bad Run in Washington Township, and for a 40-ft. reinforced-concrete arch, with parapet and wing walls, over Cabin Creek near East Prospect.

Baltimore, Md.—The lowest bid received by the State Roads Commission for resurfacing the approaches to the Dover Bridge, Talbot and Caroline Counties, was that of Austin Bennett & Co., Baltimore, at $9212 for concrete, and $8708 for macadam.

Rocky Mount, Va.—(Official)—Bids will be received until noon, July 23, by the Clerk of the Circuit Court of Franklin County for the construction of a 110-ft. bridge over Maggoty Creek, about four miles from Wirtz. G. P. Coleman, Richmond, is State Highway Comr.

†Grafton, W. Va.—The Commissioners of Taylor County have awarded the contract for the construction of a new bridge over the Tygarts Valley River to the LUTEN BRIDGE CO., Clarksburg, at $50,600. It will be a six-span reinforced-concrete structure 560 ft. long.

Rainelle, W. Va.—(Official)—All bids received July 6 by the Greenbrier County Court, Lewisburg, for the construction of three steel or reinforced-concrete bridges near Rainelle were rejected. The Commissioners have placed an engineer in charge and will build the bridges themselves. John S. Crawford is Clk. Noted June 24.

†Asheville, N. C.—The Board of Commissioners of Buncombe County has awarded the contract for the construction of three bridges to the ROANOKE BRIDGE & IRON CO., Roanoke, Va., at $4030, and a contract for three bridges to the NASHVILLE BRIDGE CO., Nashville, Tenn., at $4865.

Athens, Ga.—It is reported that the Commissioners of Clarke County are considering the reconstruction of the Princeton Bridge by placing a new steel superstructure on the present foundations. The estimated cost is $4000.

Miami, Fla.—It is reported that an election will be held Aug. 19 to vote for an issue of $150,000 in bonds, the proceeds of which will be used for the construction of two bridges across the Miami River. Estimated cost, $75,000 each. B. H. Klyce is Engr.

Pineville, Ky.—Bids will be received by the County Commissioners until July 17 for the construction of a bridge over the Cumberland River, consisting of two 150-ft. spans and one 50-ft. span.

Meridian, Miss.—The City Council contemplates an expenditure of $15,000 for the construction of a concrete bridge.

Ashland, Ohio—Bids will be received by B. Welty, Clk., Bd. of County Comrs., until noon, Aug. 6, for constructing and repairing seven bridges in various townships.

✚Bucyrus, Ohio—The Board of Commissioners of Crawford County has awarded contracts for the construction of the Mary St. Bridge, Bucyrus, to MARTIN TEYNOR at $4900 for the substructure, and to the ELKHART BRIDGE & IRON CO. at $1498 for the superstructure. Contracts for the Parcher Bridge over the Sandusky River in Dallas Township were awarded to BRADY, O'CONNELL & MALLOY, Marion, at $8544 for substructure and fill, and to the ELKHART BRIDGE & IRON CO., at $5658 for the superstructure. Noted May 27.

Carrollton, Ohio—Bids will be received until Aug. 2 by the Board of Commissioners of Carroll County for rebuilding the bridge over Big Sandy Creek, west of Magnolia, Rose Township. S. G. Shotwell is Pres.

Columbus, Ohio—(Official)—Bids will be received until noon, July 30, by the Board of Commissioners of Franklin County for the following bridge work: Building approaches to the Schrock Bridge over Alum Creek on the Schrock Rd., Blendon Township; removing and reërecting the Third Ave. Bridge over the Olentangy River on the Eberly Rd. over Alum Creek, Truro and Madison Townships; construction of the substructure, superstructure and roadway of the Eberly Bridge over Alum Creek, Truro and Madison Townships. John Scott is Clk. of Comrs.

Dayton, Ohio—Plans are being prepared by the City Commissioners for the construction of new bridges at Keowee, Fifth and Webster St., to replace those washed away by the floods of 1913. The estimated cost is $70,000, $125,000 and $100,000 respectively. E. C. Cummin is City Engr.

Lebanon, Ohio—(Official)—Bids will be received until 11 a.m., Aug. 2, by the Board of Commissioners of Warren County for the construction of creosoted plank and block floors on two bridges, one over Clear Creek on the Union Rd., Franklin Township, and the other over the Little Miami River in the Village of South Lebanon, Union and Hamilton Townships. John M. Mulford is County Audr. and Clk. of Comrs.

Marietta, Ohio—Bids will be received until July 20 by the Board of Commissioners of Washington County for the construction of the Forshey Bridge on Fleming Rd., Adams Township, and the Weir Bridge in Decatur Township. W. B. Alexander is County Audr.

Newark, Ohio—Bids will be received until July 24 by the Board of Commissioners of Licking County for the construction of a bridge over Dry Creek in Newton Township on the Newark-Mt. Vernon Rd. The work will include extending and repairing the present wings and abutments, 104-ft. steel superstructure with 18-ft. roadway, paved with reinforced concrete. J. W. Hursey is County Audr.

Portsmouth, Ohio—W. F. Nugent, Louisville, at $119,946, submitted the lowest bid for the construction of the Lawson Run Viaduct over the tracks of the Norfolk & Western Ry. Noted June 24.

Strasburg, Ohio—The Board of Commissioners of Tuscarawas County, New Philadelphia, has decided to replace the present wooden bridge over Sugar Creek near Strasburg with a 100-ft. steel structure. The estimated cost is $4500. The present piers will be used.

Toledo, Ohio—Bids will be received until 10 a.m., Aug. 6, by Charles J. Sanzenbacher, Audr., Lucas County Comrs., for the construction of three bridges and new abutments.

✚Bloomington, Ind.—(Official)—The contract for the construction of the Willard Farr Steel bridge in Bloomington Township has been awarded to the SULLIVAN BRIDGE CO., Sullivan. Noted June 24.

Indianapolis, Ind.—The Board of Public Works received bids June 28 for the construction of a three-arch reinforced-concrete bridge over Fall Creek at North Meridian St., as follows: Marsch-Cleary-White Construction Co., Chicago, Ill., $144,700; Dunn-McCarthy Construction Co., $146,378; Hickey Bros., St. Louis, Mo., $170,239; Mansfield Engineering Co., $172,789; Hackedorn Construction Co., $179,819; A. J. Yawger Co., $182,734; Carmichael-Cryder Co., St. Louis, $187,400; Kuert Contracting Co., Indianapolis, $198,700. B. J. Jeup is City Engr. Noted June 17.

✚Lawrenceburg, Ind.—The OREGONIA BRIDGE CO., Lebanon, Ohio, at $19,335, has been awarded the contract for the construction of a bridge over the White River.

✚Madison, Ind.—The Jefferson County Commissioners have awarded the contract for the construction of a bridge to the EAST ST. LOUIS BRIDGE CO., East St. Louis, Ill.

✚Springfield, Ill.—(Official)—The State Highway Department has awarded the contract for the construction of a 155-ft. steel bridge in Bernadotte Township, Fulton County, to the CENTRAL STATES BRIDGE & IRON CO., Indianapolis, Ind., at $4888. Other bidders were: Joliet Bridge & Iron Co., $5264; East St. Louis Bridge Co., $5190; Porter McCullough Construction Co., $5270; Decatur Bridge Co., $4985; Illinois Steel Bridge Co., $4981. Noted June 24.

Eagle Point, Wis.—An election will soon be held to vote on the question of issuing $21,000 in bonds, the proceeds of which will be used for the construction of a bridge over the Chippewa River at Cobban.

✚Milwaukee, Wis.—FRANK LUENZMANN, at $4711, has been awarded the contract for the construction of a temporary bridge across the tracks of the Northwestern Ry.

Dubuque, Iowa—Bids will be received until July 20 by the Board of Supervisors of Dubuque County for the construction of 75 bridges and culverts in the county. W. B. Turlay is County Engr. John Ingram is County Audr.

✚Red Oak, Iowa—The Commissioners of Montgomery County have awarded the contract for the construction of steel bridge with a 100 ft. main span, two 20-ft. approaches and a 16-ft. roadway over Modaway River, Grant Township, to the RED OAK BRIDGE & IRON WORKS.

✚Cannon Falls, Minn.—JOHNSON & DRAKE, Minneapolis, has been awarded the contract for the construction of a reinforced-concrete bridge consisting of three 60-ft. spans of the arch rib type. The WALES, CAMPBELL CO., Minneapolis, was awarded the contract for a bridge with two 67-ft. girder spans estimated to cost $25,000. Noted June 10 and 17.

Sioux City, Iowa—It is reported that the City Council is considering the construction of a bridge across Floyd River at 37th St.

✚St. Paul, Minn.—The contract for the construction of a bridge on Wheelock Parkway across the tracks of the Minneapolis, St. Paul & Sault Ste. Marie Ry. has been awarded to A. H. HEINBACH, at $6750.

Hill City, Kan.—Bids will be received until July 16 by J. C. Herman, Clk. of Graham County, for replacing three bridges and the construction of three new ones.

Minneapolis, Kan.—(Official)—Bids will be received until noon, July 16, by the Commissioners of Ottawa County for the construction of a 90-ft. steel bridge with concrete floor and reinforced-concrete abutments over the west branch of Pipe Creek, Logan Township, Ottawa County.

Wichita, Kan.—It is reported that the Commissioners of Sedgwick County will soon ask for bids for the construction of two reinforced-concrete bridges, one over the drainage canal on 21st St. to cost about $8000, and the other over Jester Creek in Valley Center Township, estimated to cost $4500.

Kearney, Neb.—It is reported that the Commissioners of Buffalo County contemplate the construction of five bridges.

Hardin, Mont.—Bids will be received until July 21 by R. P. Ross, Clk. of Big Horn County, for the construction of three bridges, one over the Little Big Horn River on the Sarpy Rd., one over the same stream near Wyola, and the third over the Big Horn River, about 1½ miles northeast of Hardin. Noted June 10 and 24.

✚Clinton, Mo.—The Commissioners of the Henry County Court have awarded the contract for the construction of a 150-ft. bridge over the Grand River to the CANTON BRIDGE CO.

Kansas City, Mo.—The City Council proposes to sell bonds for $400,000, the proceeds to be used for the construction of the 12th St. viaduct approaches.

Maryville, Mo.—Press reports state that plans are being prepared for the construction of four bridges. Fred Yoeman is Clk. of Nodaway County.

Oak Grove, Mo.—Bids will soon be received for the construction of a concrete bridge over a creek on the new Oak Grove Mecklin Rd. The estimated cost is $6000.

Poplar Bluff, Mo.—Bids will be received until July 19 by John H. Greason, Engr., Butler County Drainage Dist. No. 10, Court House, Poplar Bluff, for the construction of 28 steel bridges in connection with nine drainage canals in the district. J. O. Chambers is Clk. of County Court.

✚St. Louis, Mo.—(Official)—The contract for 23,000 tons of structural steel for the Illinois approach of the Municipal Bridge has been awarded to the AMERICAN BRIDGE CO. Estimated cost, $1,035,000. Noted July 8.

✚Portland, Tex.—It is reported that W. T. MONTGOMERY, San Antonio, at $8761, has been awarded the contract for the construction of a concrete bridge and culverts from Sap Depot to the north line of the district.

✚La Junta, Colo.—(Official)—The Board of Commissioners of Otero County Courthouse has awarded the contract for the construction of a bridge across Anderson Arroyo on Fifth St. to the PUEBLO BRIDGE CO., Pueblo, at $6640. Noted June 24.

✚Ribera, N. M.—The contract for the construction of a 14-ft. steel bridge over the Pecos River has been awarded to the MISSOURI VALLEY BRIDGE CO., Leavenworth, Kan., at $5500.

Colville, Wash.—Bids will be received until July 19 by the Commissioners of Stevens County for the construction of a steel truss highway bridge near Kettles Falls. The estimated cost is $16,000.

Davenport, Wash.—It is reported that Lincoln County will spend about $50,000 in the construction of new bridges this year. Guy H. Harvey is County Engr.

✚Elma, Wash.—The Commissioners of Chehalis County, Montesano, have awarded the contract for the construction of a 255-ft. steel bridge over the Chehalis River near Elma to the COAST BRIDGE CO., Portland, Ore., at $11,000. Other bidders were: T. H. Clingan, Seattle, $11,360; Charles G. Huber, Seattle, $12,395; Portland Bridge Co., Portland, Ore., $12,483; Illinois Steel Bridge Co., Spokane, $13,640; Portland Bridge & Iron Co., Portland, Ore., $13,990.

Kettle Falls, Wash.—Bids will be received until July 19 by the Auditor of Stevens County, Colville, for the construction of a steel truss bridge near Kettle Falls.

Seattle, Wash.—The lowest bid received by the Commissioners of King County for the construction of the Stossel Bridge was that of A. H. Cox & Co., 309 First Ave. S., Seattle, at $14,735. The bridge will be a 209-ft. steel span. Noted June 17.

Tacoma, Wash.—It is reported that bids will be received about July 21 by Owen Woods, Comr. of Pub. Wks., for the construction of a wooden bridge across the gulch on 34th St. It will cost about $14,000. Noted May 27 and June 10.

Portland, Ore.—(Official)—Bids will be received by A. L. Barbour, City Audr., until noon, July 26, for the construction of a reinforced-concrete viaduct and approaches over the Troutdale Branch of the Oregon-Washington R.R. & Navigation Co. The estimated cost is $53,000. Noted July 1.

✚Burlingame, Calif.—Press reports state that the City Trustees have awarded the contract for the construction of eight bridges to EATON & SMITH, at $20,072. Noted May 27.

Marysville, Calif.—The Board of Supervisors of Yuba County have accepted plans for the construction of three bridges on the State Highway between Wheatland and Morrison's Crossing. The estimated cost is $15,000.

Red Bluff, Calif.—The Board of Supervisors of Tehama County has rejected all bids received June 29 for the con-

struction of three steel or concrete bridges, a 2200-ft. bridge across Sand Slough, a 450-ft. bridge across Samson Slough and a 600-ft. bridge across Payne Creek. The work will be readvertised. Noted June 24.

San José, Calif.—Bids will be received by the Board of Supervisors of Santa Clara County until 11 a.m., July 19, for the construction of two reinforced-concrete bridges on Alviso Rd.

✚Quebec, Que.—The City Council has awarded the contract for the construction of a steel bridge at Stadacona Rd. to the EASTERN CANADA STEEL & IRON CO., Montreal, at $116,000. Noted Aug. 13.

WATER SUPPLY—IRRIGATION

Boston, Mass.—(Official)—Bids will be received until noon, July 20, by the Commissioner of Public Works, Room 511 City Hall Annex, for laying water mains in C, South Boston, Albany, Bristol, Endicott, Federal, Green, Haverhill, Leverett, Norway and Stillman St. Patrick O'Hearn is Act. Comr. of Pub. Wks.

✚Boston, Mass.—The contract has been awarded to the DAVIS FOUNDRY CO., for furnishing 300 c.-i. gate boxes for the Water Department.

Lenox, Mass.—According to press reports the Lenox Water Co. has postponed the construction of a reservoir. Noted Oct. 8 and June 24.

South Hadley Falls, Mass.—The town has been advised by the State Board of Health to either secure a new water supply or filter its present supply.

★Hartford, Conn.—(Official)—Bids will be received until 3 p.m., Aug. 2, by the Board of Water Commissioners for the construction of the Richards Corner dam, compensating reservoir in New Hartford under Contract No. 10. Caleb Mills Saville is Ch. Engr.

Lewiston, N. Y.—Bonds for $29,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. Noted Feb. 25 and July 1.

Youngsville, N. Y.—Bonds for $28,000 have been voted by the citizens, according to press reports, the proceeds of which will be used for the construction of a water system.

Jersey City, N. J.—According to press reports bids will soon be received for the construction of a 72-in. steel pipe line 11 miles long. Charles A. Van Keuren is City Engr. Noted Feb. 11 and June 10.

West Orange, N. J.—William B. Fuller, Consult. Engr., in a final report on the water question to the West Orange Town Council recommended the purchase of the present distributing system of the West Orange Water Co., at an estimated cost of $201,625. Improvements will cost $250,000. Noted Apr. 1.

Altoona, Penn.—(Official)—Bids are being received by the Allegheny Water Co. for an auxiliary pumping station for the water system. Chester & Fleming, Pittsburgh, is Engr. Noted Nov. 12.

Gallitzin, Penn.—(Official)—Bids will be received until July 24 by Harry F. Conrad, Borough Secy., for constructing a storage reservoir on Gum Tree Rd. D. W. Dillman, 47 Altoona Trust Bldg., Altoona, is Engr. Noted Jan. 21 and Apr. 29.

Langhorne, Penn.—Bids will be received until July 20 by H. J. Briggs, Secy., Langhorne Spring Water Co., for constructing a filtration plant with a daily capacity of 300,000 gal. William H. Boardman, 426 Walnut St., Philadelphia, is Engr. Noted July 8.

Boonsboro, Md.—Official)—Plans have been approved by the State Department of Health for the construction of a new water supply pipe line.

Chestertown, Md.—(Official)—Permission has been granted by the State Department of Health for the issuance of $12,000 in bonds, the proceeds of which will be used for the improvement of the water system. Noted Jan. 7.

New Windsor, Md.—(Official)—The State Department of Health has approved plans for the extension of the water system.

Alexandria, Va.—Extensions will be made to the water system. The Common Council has authorized a loan of $50,000, part of which will be used for the extension.

Salisbury, N. C.—An election will be held Aug. 7 to vote on the question of issuing $125,000 in bonds, the proceeds of which will be used for the construction of a water plant at the north fork of the Yadkin River. Noted May 6.

Orangeburg, S. C.—Bonds for $15,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. Noted Mar. 18 and June 17.

Tallapoosa, Ga.—Bonds for $35,000 have been voted by the citizens, the proceeds of which will be used for the purchase of the privately owned water system and for its improvement, for which $10,000 will be spent. Noted May 20 and June 10.

Ocala, Fla.—Bonds for $155,000 have been sold. The proceeds will be used for the improvement of the water and sewer systems. Twombly & Henney, 55 Liberty St., New York, N. Y., is Engr. Noted Mar. 18 and June 24.

St. Petersburg, Fla.—An election will be held to vote on the question of issuing bonds, the proceeds of which will be used for the extension of the water system and the sewer system and for waterfront improvements.

Gretna, La.—An election will be held to vote on the question of issuing bonds for $50,000, the proceeds of which will be used for the construction of a water system. Noted June 17.

✚Maryville, Tenn.—(Official)—The contract has been awarded to R. E. OLIVER, Maryville, at $49,356, for constructing a water system. W. A. McTeer is Recdr. Noted Apr. 29 and July 1.

Covington, Ky.—Bids will be received until 10 a. ... July 29, by J. Mason Howk, Comr. of Pub. Property, ... pipe trenching and back filling for 10,950 ft. of 24-in. wat... mains.

Erlanger, Ky.—Press reports state that the Erla... Improvement Association plans to extend the water ma... from Ft. Mitchell to Erlanger at an estimated cost of $30,...

Ashtabula, Ohio—(Official)—Chester & Fleming, Pi... burgh, Penn., has been retained by the Ashtabula Water S... Co. to prepare plans for the construction of a 10-in. ... line under the Ashtabula River. Noted July 1.

Bedford, Ohio—Bids will be received until July 19 ... H. T. Hubbell, Village Clk., for furnishing and laying wate... mains in Tarbell and Enniss Ave., Jefferson and Harriman ...

Cambridge, Ohio—Bids will be received until Au... by the city for constructing a 200,000,000-gal. reservoir, ... water filtration plant, a new pumping engine and laying about nine miles of water mains. The W. J. Sherman Co., Nash... Bldg., Toledo, is Engr. Noted Feb. 4.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 22, by the Director of Public Safety for laying water mains in connection with the high pressure fire service. Edward P. Durr is Secy.

Cincinnati, Ohio—The city plans to build tanks to conserve the water supply and to construct a 20-in. main in Broadway and Reading Rd. to connect the high service pipes on the hilltops with the high pressure pipes in the bottoms for the fire service.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received until noon, Aug. 16, by H. H. Canfield, Clk., for constructing 12-in. c.-i. water mains in Warrensville Center Rd. F. A. Pease Engineering Co. Marshall Bldg., Cleveland, is Engr.

Columbus, Ohio—Bids will be received until noon, July 27, by George A. Borden, Dir. of Pub. Service, for furnishing and constructing water tube boilers, steam and feed water piping, grease extractor and mechanical stokers for the Scioto River pumping station.

Linden Heights, Ohio—(Official)—At the recent election the citizens voted against the question of issuing bonds for $20,000 for the construction of a water system. Noted June 24.

✚★Rittman, Ohio—(Official)—The contract has been awarded to C. A. PIERCE, Rittman, at $40,000, for constructing a water system. Vance Hickin is City Clk. Noted June 17.

✚★Rittman, Ohio—(Official)—The contract has been awarded to the BESSEMER GAS ENGINE CO., Cleveland, at $4000, for furnishing pumping equipment for the water-works. Noted June 17.

✚Shadyside, Ohio—(Official)—The contract has been awarded to HARPER & STEWART, Bellaire, at $33,233, for constructing a water system. A. J. Harbaugh, Shadyside, is Engr. Noted Jan. 21 and July 1.

South Newburg, Ohio—(Cleveland post office)—(Official)—Bids will be received until noon, Aug. 7, by H. H. Bohning, Clk., for the purchase of $26,662 in bonds, the proceeds of which will be used for the construction of water mains in Broadway and Winfall Ave.

Wellington, Ohio—(Official)—Bids will be received until noon, July 31, by E. E. Goodrich, Clk. Bd. of Pub. Affairs, for making improvements to the water system.

✚Youngstown, Ohio—The contract has been awarded to WILLIAM HENDERSON at $54,975, by the Board of Control for rebuilding the filter beds.

✚Batesville, Ind.—(Official)—The contract has been awarded to the HILLENBRAND CO., Batesville, at $12,600, for constructing an earth dam and for laying water mains and constructing 9000 ft. of electric transmission line. Charles Brossmann, Indianapolis, is Engr. and A. W. Ronweber is Secy. and Treas. Noted June 4 and July 1.

★Rockford, Ill.—(Official)—Bids will be received until 10 a.m., July 27, by the Purchasing Committee, at the office of the Water-Works Superintendent, for pumping equipment.

Viola, Ill.—Bids will be received until 8 p.m., July 19, by B. D. Baxter, Pres., Bd. of Local Imp., for constructing a 10-in. well. Terhune & Horton, Central National Bank Bldg., Peoria, is Engr. Noted Feb. 25.

Kenosha, Wis.—Bids will be received until 8 p.m., July 20, by the Board of Water Commissioners for constructing a new intake.

Sheboygan, Wis.—See item under "Sewers."

Denison, Iowa—(Official)—Bids will be received until 8 p.m., July 22, by E. F. Tucker, City Clk., for drilling an artesian well. The work consists of 100 ft. of 12-in. well, cased complete, 300 ft. of 10-in. well, cased complete, 300 ft. of 10-in. well cased complete and 1400 ft. of 8-in. hole. J. G. Thorne, 317 Howes Blk., Clinton, is Engr.

Keota, Iowa—(Official)—We have been advised that the awarding of a contract for the construction of a water system has been canceled, owing to recent rulings of the Supreme Court in regards to bond elections. The work will probably be readvertised about Sept. 1. Charles P. Chase, Clinton, is Engr. Noted July 8.

✚Lowden, Iowa—(Official)—Bids were received July 8 for constructing a water system as follows: W. D. LOVELL, Minneapolis, Minn., at $12,601 (awarded contract) for pipe line, elevated tank and tower and motor; Des Moines Bridge & Iron Works, $13,181; Alamo Engine & Supply Co., Omaha, Neb., $13,116; M. McEllicott, Evanstone, Ill., $13,569; C. W. Roland, Des Moines, $12,868; Ideal Heating Co., Davenport, $13,109; F. E. MYERS & BROS., Ashland, Ohio, at $370 (awarded contract) for deep well pump. Noted Apr. 22. J. G. Thorne, 317 Howes Blk., Clinton, is Engr.

Riverside, Iowa—(Official)—We have been advised that the awarding of a contract for the construction of a water system has been canceled, owing to recent rulings of the

Supreme Court in regards to bond elections. The work will probably be readvertised about Sept. 1. Charles P. Chase, Clinton, is Engr. Noted July 8.

Lakefield, Minn.—Bids will be received until July 28 by E. C. Anderson, Village Recdr., for making improvements to the water and electric-light systems. Earle D. Jackson, St. Paul, is Engr. Noted June 24.

✚Thief River Falls, Minn.—(Official)—The contract has been awarded to the ROBINSO VAN ALSTINE CO., Grand Forks, N. D., at $8398, for repairing the water system. E. J. Overland is City Clk. Noted July 1.

Larned, Kan.—Bids will be received until July 19 by L. D. Burgess, City Clk., for making improvements to the water system. The work includes the following: Motor driven pumps, test boilers, steam and exhaust piping and auxiliary boiler room equipment and furnishing and constructing a stack.

Simpson, Kan.—Bonds for $12,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. E. T. Archer & Co., Midland Bldg., Kansas City, Mo., is Engr. Noted June 24.

Spearville, Kan.—An election will be held to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for the construction of a water system. E. T. Archer & Co., Midland Bldg., Kansas City Mo., is Engr. Noted June 24.

Norfolk, Neb.—An election will be held July 31 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the extension of the water system.

Syracuse, Neb.—Another election will be held to vote on the question of issuing bonds, the proceeds of which will be used for the extension of the water system. Noted June 10.

✚Sioux Falls, S. D.—(Official)—Bids will be received until July 26 by Walter C. Leyse, City Audr., for constructing a 1,200,000-gal. reinforced-concrete covered reservoir, a 350,000-gal. elevated tank and for pumping machinery. John Mundt is Comr. of Water-Wks.

Hettinger, N. D.—Bonds for $75,000 have been voted by the citizens. The proceeds will be used for the construction of a water system. C. H. Green, Spokane, Wash., is Engr.

✚Cheyenne, Wyo.—(Official)—The contract has been awarded to the PITTSBURGH FILTER MFG. CO., Pittsburgh, Penn., at $81,900, for constructing a rapid sand filtration plant. Noted July 2.

Three Forks, Mont.—The City Council has retained Swearinger & McCulloch, Engr., Great Falls, to prepare plans for the construction of a water system for Three Forks. The estimated cost is $25,000, bonds for which have been voted.

Independence, Mo.—The County Court of Jackson County is negotiating with the city for an extension of the water mains to the Girls' Home.

St. Louis, Mo.—Bids will be received until noon, July 20, by the Board of Public Service for constructing a reinforced-concrete pipe tunnel between engine houses 1 and 2, Bessell's Point Pumping Station.

St. Louis, Mo.—Bids will be received until noon, July 20, by the Board of Public Service for laying about 23,000 ft. of water mains.

Star City, Ark.—According to press reports the city has granted a franchise to the Star City Water Co. to construct water and sewer systems. Water will be piped from Atkins Springs, about two miles. J. C. Hellums is one of the Comrs.

Houston, Tex.—(Official)—Bids will be received until 2 p.m., July 23, by the city for constructing two 50,000-gal. steel tanks.

Cœur d'Alene, Idaho—The City Attorney will make application to the Public Utilities Commission, Boise, for permission to construct a municipal water system.

Vernal, Utah—The supply pipe line of the water system will be extended five miles, according to press reports.

Phoenix, Ariz.—The City Commission contemplates installing a pure water supply. J. B. Girand is City Engr.

✚Oroville, Wash.—The contract has been awarded to A. GUTHRIE & CO., St. Paul, Minn., at $600,000, by the East and West Okanogan Irrigation Project for constructing an irrigation system to water several thousand acres of land.

Seattle, Wash.—The City Council will construct water mains in North 28th St., Bradner Pl. and 29th Ave., at an estimated cost of $25,000. L. B. Young is Chn. Bd. of Pub. Wks.

Eastside, Ore.—The cost of constructing a water system has been estimated by S. B. Cathcart, City Engr., at between $25,000 and $40,000, according to the kind of pipe used. Noted July 1.

Doyle, Calif.—The Lassen Irrigation District has retained William Wells as engineer for its irrigation system. Elbert Howard is interested.

Oakdale, Calif.—Plans are being prepared for the Oakdale Irrigation District for the construction of an 8000-ft. tunnel to be bored through Cape Horn. The estimated cost is $50,000.

Montreal, Que.—Hering & Fuller, New York, N. Y., is preparing plans, according to press reports, for the construction of a mechanical filtration plant to increase the daily capacity from 50,000 to 100,000 gal. Noted June 17.

Lambeth, Ont.—J. A. Bell, St. Thomas, is preparing plans for a new water system, including a pumping plant, the estimated cost of which is $20,000.

Oakville, Ont.—Bids will be received until 8 p.m., July 26, by C. G. Marlatt, Chn. Water & Light Commission, for furnishing and installing one electrically operated turbine pump of 600 imperial gal. capacity against a head of 300 ft.

Ottawa, Ont.—Bids will be received until Aug. 3 by the City Clerk for constructing the overland pipe line. The estimated cost is $460,000. J. B. McRae, Ottawa, is Consult. Engr. Noted May 13.

Kamsack, Sask.—The citizens plan to spend $35,000 for the construction of a water system. H. H. Crawford is Clk.

SEWERS

✚Portland, Maine—(Official)—The contract for sewer construction has been awarded to FERANTE PROFENNO CO., Portland, at $5363. Other bids were: Paolo De Biasa & Co., $6879; Petrantonio Pajio & Co., Informal; Forgione & Romano Co., $7052; Profensio & Larello, $5526; Rafalle Leo & Co., $5879. Noted July 1.

Andover, Mass.—Bids will be received until 5 p.m., July 17, by the Board of Public Works for the construction of approximately 15,422 ft. of sewers. Noted Apr. 22.

Boston, Mass.—Bids will be received until noon, July 16, by Patrick O'Hearn, Act. Comr. of Pub. Wks., for the construction of pipe sewers and drains in Cedric St., Roxbury, in Aldwin Rd. and Cornell St., West Roxbury.

Pittsfield, Mass.—The city has appropriated $10,000 for the construction of lateral sewer extensions.

✚Greenwich, Conn.—(Official)—The contract for the construction of sewage-disposal works in East Port Chester Sewer District No. 9 has been awarded to DALY & MERRITT, Port Chester, N. Y. S. E. Minor is City Engr. Noted May 13.

New Haven, Conn.—(Official)—Bids will be received until 2 p.m., July 15, by the Director of Public Works for the construction of Whalley Ave. sewer. The estimated cost is $100,000. Noted July 1.

✚Waterbury, Conn.—The contract for the construction of sewers in East Main, Chipman, Ridge St., in Congress and Yates Ave. has been awarded to the H. SPINACH CONSTRUCTION CO., at $6206.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., July 21, by L. H. Pounds, Borough Pres., for the construction of sewers in 15th St., Eight, Gravesend and Pennsylvania Ave.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received July 9 by Marcus M. Marks, Borough Pres., for the construction of sewers, (a) in East 41st St. and in Madison Ave., (b) in Wall St., as follows: Kingsbridge Contracting Co., (a) $144,404, (b) $13,252; L. E. Kelly, Inc., (a) $175,000, (b) $17,293; Henry E. Fox Construction Co., (a) $180,000; Rodgers & Haggerty, (a) $194,784; Battery Engineering & Construction Co., (a) $184,000; Fitzgerald & Brennen, (b) $12,353; P. L. Kearns Contracting Co., (b) $12,628; Merrill Ruckgaber, (b) Informal; J. J. Haiduveh, (b) $14,851; Patrick Reilly, (b) $12,906; Laconia Contracting Co., (b) $10,926; U. S. Drainage & Irregation Co., (b) $12,648; Lawrence Contracting Co., (b) $13,505; Melrose Contracting Co., (b) $11,462. Noted July 1.

Olean, N. Y.—The city has postponed the construction of the proposed sewers, estimated to cost $8000, for about one year. Noted Apr. 22.

✚Scarsdale, N. Y.—(Official)—Bids were received June 22 by the Sewer Commissioners for the construction of sewer extensions as follows: (a) Division A, (b) Division B, (c) Division C, William R. Neely, Tarrytown, (a) $8297, (b) $6701; FRED E. GROSS & SON, Yonkers, (a) $8426 (awarded contract), (b) $6713, (awarded contract); Sound Engineering & Contracting Co., Inc., 1476 Broadway, New York, (a) $8723, (b) $7371; Lincoln Steele Fleming Co., 17 Madison Ave., New York (a) $9028, (b) $7985, (c) $43,589; Charles Smith, Pelham, (a) $9086, (b) $7682; F. A. Cianfaglione, Yonkers, (a) $9180, (b) $6929; Briggs & McLaughlin Contracting Co., 337 East 134th St., New York, (a) $9503, (b) $7875, (c) $40,481; Richards & Cestona, White Plains, (a) $9701, (b) $6845, (c) $53,074; DALY & MERRITT, Port Chester, (a) $9834, (b) $9552, (c) $31,964, (awarded contract); Frank George, White Plains, (a) $9910, (b) $7631, (c) $43,205; Joseph Dimando, Inc., Mamaroneck, (a) $10,175; John L. Hayes Construction Co., Yonkers, (a) $10,205, (b) $8493, (c) $42,483; Di Menna & Del Balso, 2336 Cambrelling Ave., New York, (a) $11,711; Mauro Paradiso, White Plains, (a) $12,452, (b) $7957, (c) $48,924; Charles E. Farrell Contracting Co., 1831 Southern Blvd., New York, (b) $8646; Engineers Estimate, (a) $10,263, (b) $8394, (c) $43,336. Waring, Chapman & Farquhar, 874 Broadway, New York, N. Y., is Consult. Engr. Noted June 17.

Edgewater, N. J.—Bids were received July 7 by the Town Council for the construction of sewer outlet No. 10 from B. Paddington & Co., $64,014, John J. McGarry, $47,119, and Edward English, $36,678.

Jersey City, N. J.—Plans are being prepared for the construction of a sewage-disposal plant at Fiske St. and Newark Bay. This is the first of the four to be constructed by order of the Board of Health. The estimated cost is $100,000. Noted Jan. 7.

✚Harrisburg, Penn.—The contract for the construction of sewers in Rudy, Delancey and Spencer St. has been awarded to M. M. SHESSLEY & SON, Johnstown, at $7638. Noted Mar. 18.

Lebanon, Penn.—The City Council has approved plans submitted by T. R. Crowell, City Engr., for the construction of a sewage-disposal plant.

Philadelphia, Penn.—The City Council has authorized the construction of the Franklin Creek Intercepting Sewer. The estimated cost is $500,000.

Wilmington, Del.—The city contemplates the construction of sewers along the Brandywine Creek from Henry Clay. The estimated cost is $60,000 of which the DuPont Powder Co. will pay $10,000. Alexander Taylor is City Engr.

✚Ocean City, Md.—(Official)—Bids will be received until July 26 by the Mayor for the construction of a sewage pumping station, clarification tank, intercepting and branch sewers. Pugh & Mubbard, 731 Witherspoon Bldg., Philadelphia, Penn., is Engr. Noted June 3.

Alexandria, Va.—The Common Council has authorized a loan of $50,000 for the construction of sewers. Albert Bryan is Chn. of Finance Com.

✚Kinston, N. C.—The city has awarded contracts for the construction of extensions to the sewer system to MISCHLER & FLYNN, Chattanooga, Tenn., at $28,200, and for sewer pipe to the CHATTANOOGA SEWER PIPE & FIRE BRICK CO., at $7753.

Salisbury, N. C.—An election will be held Aug. 7 to vote on the question of issuing $20,000 in bonds. The proceeds will be used for the construction of sewers and for street improvements.

✚Winston-Salem, N. C.—The city has awarded contracts for the construction of concrete disposal tanks and irrigation ditches to the MUNICIPAL ENGINEERING & CONSTRUCTION CO., Atlanta, Ga., and to the HEWITT CONSTRUCTION CO., Hickory, N. C., for the construction of approximately one mile of pipe line leading directly to the plant. The estimated cost is $50,000. Noted June 17.

Hammond, La.—Bonds for $40,000 have been sold, the proceeds of which will be used for the construction of a sewer system. Noted June 3.

Harlan, Ky.—Plans are being prepared for the construction of a sewer system. The estimated cost is $75,000. D. H. Goss is City Clk. Noted June 24.

Lexington, Ky.—Plans are being prepared by Solomon-Norcross Co., Consult. Engr., Atlanta, Ga., for the construction of a sewage-disposal plant and a sewer system. The estimated cost is $200,000. Noted June 17.

✚Madisonville, Ky.—The contract for the construction of sanitary sewers has been awarded to QUINN & ELLIS, Nashville, Tenn., at $6057. Noted June 24.

Ashtabula, Ohio—(Official)—Bids will be received until July 17 by M. H. Turner, Dir. of Pub. Ser., for the construction of sewers in Mill, Gern St., Kain Rd. and in Woodman Ave. The estimated cost is $4938. Lewis A. Amsden is City Engr. Noted May 6.

Brewster, Ohio—(Official)—Bids were received July 2 for the construction of sewers from the Ross-Cook Engineering Co., Akron, $9267; Gessher & Gothrel, Toledo, $14,329; Kohbarger & Hoyles, Marion, $13,822; Philip Sheets, Newcomerstown, $18,972; Thomas P. Egan, Cleveland, $16,004; Hadley & Dickey, Canton, $10,016; Wise Bros., Canton, $13,357. Noted June 17.

Cincinnati, Ohio—Bids will be received until noon, July 21, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in Carll St., Kirby and Clinton Springs Ave.

Cincinnati, Ohio—Bids will be received until Aug. 5 by the city for the construction of sewers and appurtenances in South Canal St., in county property from Sycamore to Main St. and in the Hamilton County Courthouse.

Cleveland, Ohio—(Official)—Bids were received July 7 for the construction of the Walworth Run Diversion Sewer under two contracts, (a) Section No. 1, (b) Section No. 2, as follows: Hoag & Zullo, Cleveland, (a) $114,900, (b) $101,537; Donnelly & Graham, Cleveland, (a) $121,490, (b) $101,262; Manson Co., Cleveland, (a) $131,080, (b) $121,875; Gawne Contracting Co., Cleveland, (a) $137,590; Dock Contractor Co., Hoboken, N. J., (a) $140,460, (b) $116,725; Joseph Winterbottom, Cleveland, (a) $142,700, (b) $116,925; J. Connelly Construction Co., Cleveland, (a) $147,140, (b) $121,875; W. P. Gibbons Construction Co., Cleveland, (a) $155,534, (b) $146,037; Henry C. Ulen, Chicago, Ill., (a) $159,400, (b) $131,800; William McDowell & Son Co., Cleveland, (a) $162,670, (b) $134,112; Charles A. Haskin, Boston, (a) $185,740, (b) $153,250; J. Wagner & Son, Detroit, Mich., (a) $208,000. Robert Hoffman is City Engr. Noted July 1.

✚Columbus, Ohio—The Director of Public Service has awarded the contract for the construction of the south side storm sewer to J. C. CARLAND & CO., Toledo, at $220,249, to O'DONNELL & THORNBERRY, Vincennes, Ind., at $48,256, for the constructing the Maryland Ave. storm sewer, and to I. O. JONES, Columbus, at $12,703, for constructing the Granville St. relief sewer. Noted June 24.

Cuyahoga Falls, Ohio—(Official)—Bids will be received until noon, July 28, by the Village Clerk for the construction of sewers in various streets. E. D. Barstow is Village Engr.

✚Delphos, Ohio—It is reported that the contract for the construction of a sewage-disposal plant has been awarded to SUMMERS & HARDIN, Lima, at $9766.

✚New Boston, Ohio—(Portsmouth post office)—The contract for sewer construction has been awarded to the SLUSS-BAKER CONSTRUCTION CO., at $45,000.

Northfield, Ohio—Bids will be received until noon, July 19, by C. S. Machwart, Village Clk., for the construction of 12,000 ft. of 4-in. tile drain, 3000 ft. of 6-in. tile drain, 444 ft. of 15-in. corrugated culvert pipe and 10 bbl. portland cement. C. W. Courtney, 1150 Leader News Bldg., Cleveland, is Engr.

Springfield, Ohio—Bids will be received until noon, July 26, by Charles E. Ashburner, City Mgr., for the construction of sewers in Gallagher St.

Springfield, Ohio—Bids will be received until noon, July 26, by Frank B. Thomas, City Audr., for the sale of $31,168 in bonds. The proceeds will be used for the construction of the Walter St. Sewer System.

Westerville, Ohio—Bids will be received until July 16 by R. D. Bennett, Clk., for the construction of sanitary sewers in Glenwood Drive, State, East Park and West St.

Wyoming, Ohio—(Cincinnati post office)—Bids will be received until noon, July 24, by Ernest Van Bargen, City Pur. Agt., for the construction of a sanitary sewage-disposal plant at the Refuge Farm for Girls.

✚Franklin, Ind.—The contract for the construction of sewer extensions at the Masonic Home has been awarded to O'DONNELL & THORNBERRY, Vincennes, at $6148.

✚Indianapolis, Ind.—The contract for cleaning and repairing the Myers drain, Cass County, has been awarded to F. JEROME BECKLEY, Royal Center, at $6000.

Markle, Ind.—(Official)—Bids will be received until 1 p.m., July 24, by the Town Clerk for the construction of a sewer system. Thomas Ruggles is Engr. Noted July 1.

Grand Rapids, Mich.—W. H. Hoad, University of Michigan, has submitted a report on sewage disposal to the Board of Public Works. The estimated cost is $500,000. Noted Mar. 25.

✚Chicago, Ill.—(Official)—The contract for the construction of 14 miles of brick sewers in the Norwood and Edison Park Section, to be known as the Argyle St. sewer system has been awarded to the H. J. McNICHOLS CO., Chicago, at $694,461. Noted July 1.

Appleton, Wis.—Bids will be received until 9 a.m., July 26, by E. L. Williams, City Clk., for the construction of sewers in College Ave. and State Rd.

Burlington, Wis.—Bids will be received until 2 p.m., July 17, by the Board of Public Works for the construction of storm sewers, manholes and catch basins.

Madison, Wis.—The lowest bid submitted for the construction of a sewer in Williamson St. was that of J. W. Mitchell, at $9994.

Mayville, Wis.—The city contemplates the construction of a sewer system.

Milwaukee, Wis.—Bonds for $200,000 have been sold, the proceeds of which will be used for the construction of sewers. Noted June 24.

✚Sheboygan, Wis.—(Official)—The contract for the construction of sanitary sewers has been awarded to the BIRDS-ALL GRIFFITH CONSTRUCTION CO., Racine, at $8398. Noted July 1.

Watertown, Wis.—The lowest bid received for the construction of a sewer in Nashotah St. and through private property to the river was that of E. L. Bartlett, Watertown, at $6550.

✚Wauwatosa, Wis.—The contract for the construction of storm sewers has been awarded to W. P. KUEHN, at $4005.

Cedar Falls, Iowa—The city contemplates the construction of sewers estimated to cost $5000. C. H. Streeter is Engr.

✚Council Bluffs, Iowa—The contract has been awarded to E. A. WICKHAM, Council Bluffs, at $62,573, for the construction of approximately 12½ miles of sewers in District No. 1. Noted May 6.

✚Marion, Iowa—The contract for the construction of approximately 8000 ft. of sewers has been awarded to MARK JACKSON, Cedar Rapids, at $4820.

What Cheer, Iowa—The city contemplates the construction of sewers and a sewage-disposal plant. The estimated cost is $30,000. Bruce, Standeven & Boynton, 400 Bee Bldg., Omaha, Neb., is Engr.

Breckenridge, Minn.—At a recent election the citizens voted to issue $18,000 in bonds, the proceeds of which will be used for the construction of sewers. Noted May 6.

St. Paul, Minn.—All bids received June 14 by August Hohenstein, City Pur. Agt., for the construction of sewers in Glenham, Maplewood, Medford and Otto Ave. have been rejected. The estimated cost is $20,000. Noted June 24.

Atchison, Kan.—Plans are being prepared for the construction of approximately 5000 ft. of 18- to 30-in. vitrified pipe sewers and 20 manholes. Bids will be received about Aug. 15. V. L. King is City Clk.

Wisner, Neb.—Bids will be received until July 19 by C. S. Daily, City Clk., for the construction of a sewer system. The estimated cost is $20,000. Bruce, Standeven & Boynton, 430 Bee Bldg., Omaha, is Engr. Noted May 20.

Centerville, S. D.—An election will be held July 16 to vote on the question of issuing $27,000 in bonds. The proceeds will be used for the construction of a sewer system.

✚Sidney, Mont.—The contract for the construction of lateral sewers in Special Improvement District No. 3 has been awarded to BENDON, JONES & REED, Sidney, at $9708.

Three Forks, Mont.—Swearinger & McCulloch, Engr., Great Falls, is making surveys for the construction of a sewer system. The estimated cost is from $20,000 to $25,000.

Independence, Mo.—Plans are being prepared by H. H. Pendleton, City Engr., for the construction of a sewer system for the Girls' Home.

Kansas City, Mo.—The City Council has authorized the sale of $100,000 in bonds, the proceeds of which will be used for the construction of sewers.

✚Kirksville, Mo.—The contract for the construction of storm sewers in Joint Storm Sewer District No. 3 has been awarded to the HIRAM LLOYD CONSTRUCTION CO., St. Louis, at $6110. Noted June 10.

St. Joseph, Mo.—The city contemplates issuing $500,000 in bonds, the proceeds of which will be used for the construction of a sewer system.

Corsicana, Tex.—The city contemplates holding an election to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of sewers.

✚Houston, Tex.—The contract for the construction of storm sewers in South Main St. at Harris Gully has been awarded to HORTON & HORTON, at $9000.

Muskogee, Okla.—The city contemplates the construction of the North Mill St. sewer. The estimated cost is $23,000.

✚Salt Lake City, Utah—(Official)—The contract for the construction of the Sewer Extension No. 351 has been awarded to JAMES KENNEDY, Fargo, N. D., at $25,017. Noted June 17.

Roslyn, Wash.—The City Council has organized Local Improvement Districts Nos. 1 and 2 and will construct sewers. George T. Wake is City Clk.

✚Alameda, Calif.—(Official)—The contract for sewer construction has been awarded to the TIBBITTS PACIFIC CO., San Francisco, at $9667. Noted June 24.

East San Diego, Calif.—Preliminary plans are being prepared by the City Engineer for the construction of a municipal sewer system. The estimated cost is $50,000. Noted July 8.

Visalia, Calif.—At a recent election the citizens voted to issue $50,000 in bonds, the proceeds of which will be used for the construction of sewer extensions. Noted June 24.

Toronto, Ont.—The contract for the construction of a sewer on Weston Rd. from St. Clair Ave. to the city limits has been awarded to ORPEN CO., LTD., at $23,868. Noted June 17.

Victoria, B. C.—The Council Street Committee has authorized an expenditure of $74,654 for the construction of sewers and for paving work.

STREETS AND ROADS

Boston, Mass.—(Official)—Bids will be received until noon, July 19, by the Commissioner of Public Works for constructing a bituminous macadam roadway on Haslet St. from Amherst to Metcalf St., West Roxbury, for laying artificial stone side walks on Lake St., Brighton and for bitulithic pavement on Birch St. from Penfield St. Dudley Ave., West Roxbury.

Boston, Mass.—Contracts have been awarded for paving with asphalt Claxton St. from Blue Hill Ave. to Callender St., Dorchester, to D. M. BIGGS & CO., $11,507; Claybourne St. from Dakota to Park St., Dorchester, with bitulithic to JAMES DOHERTY, at $8657. Noted June 17.

Cranston, R. I.—E. P. TRACY, Derby, at $24,000, has been awarded the contract to resurface Broad St. with asphalt.

Warwick, R. I.—The town council has awarded the contract for building bituminous highway at Ludlow Corner to JOSEPH McCORMICK, East Providence.

Hartford, Conn.—Bids were received July 2 by Charles J. Bennett, State Highway Comr., for constructing roads as follows: Ashford Township, 14,960 lin.ft. gravel on the Warrenville Rd.; Robert G. Miller Contracting Co., Hartford, $19,261; A. D. Ambrosia & Co., Hartford, $25,165; A. Brazos & Sons, Middletown, $24,545; Framingham Contracting Co., South Framingham, $20,155; A. D. Bridge's Sons, Inc., Hazardville, $19,177; Connecticut Good Roads & Construction Co., New Britain, $16,344; Ahern Construction Co., Willimantic, $18,299; Archie B. Cadwell, New Britain, $20,180; Louis Longhi & Bro., Torrington, $18,443. Glastonbury Township, 6500 lin.ft. 2-in. bituminous macadam on the Hartford-New London Township Rd., A. D. Ambrosia & Co., Hartford, $14,206; Piersen Engineering & Construction Co., Hartford, $10,690; Connecticut Good Roads & Construction Co., New Britain, $9565; A. E. Douglass, Glastonbury, $8600; A. D. Bridge's Sons, Inc., Hazardville, $8752. Sprague Township, about 1630 lin.ft. gravel, A. D. Bridge's Sons, Inc., Hazardville, $2325; Frank A. Wilcox, Norwich, $1299; Fred D. Miller, Norwich, $1508. Killingworth Township, about 7150 lin.ft. graded on the Higganum Rd., Louis Longhi & Bro., Torrington, $5481; Frank Arrigoni & Bro., Middletown, $6053; A. Brazos & Sons, Middletown, $6317. Vernon Township, about 2675 lin.ft. bituminous macadam on Vernon Ave., A. D. Bridge's Sons, Inc., Hazardville, $5435; A. D. Ambrosia & Co., Hartford, $7801. Newtown Township, about 8040 lin.ft. 5-in. native stone macadam on the Dodingtown Rd. Connecticut Good Roads & Construction Co., New Britain, $14,400; A. Brazos & Sons, Middletown, $25,678; Goodman & Trumbull Co., Litchfield, $13,174; Louis Longhi & Bro., Torrington, $14,025; H. Sanford Osborn, Redding Ridge, $14,568; Kellogg & Gregory Co., Danbury, $11,492; Stafford & Mather, Hartford, $14,004; Archie B. Cadwell, New Britain, $13,001; Bennett N. Beard Co., Shelton, $14,562; John de Michiel & Bro., Torrington, $12,893. Canterbury Township, about 5100 lin.ft. native stone and 1995 lin.ft. native stone resurfacing on the Westminster Rd., Alco Construction Co., 178 North St., Boston, $9710; Goodman & Trumbull Co., Litchfield, $8402; Robert G. Miller Contracting Co., Hartford, Conn., $8720; Frank A. Wilcox, Norwich, $8626; A. D. Bridge's Sons, Inc., Hazardville, $9538; F. H. Gilbert, Jewett City, $15,087; Louis Longhi & Bro., Torrington, $9326; Ahern Construction Co., Willimantic, $9648. Bethel Township, about 6315 lin.ft. gravel on the Bridgeport-Newtown Rd. H. Sanford Osborn, Redding Ridge, $7497; Archie B. Cadwell, New Britain, $9623; Goodman & Trumbull Co., $8114; Bennett N. Beard Co., Shelton, $8726; Kellogg & Gregory Co., Danbury, $6795; Connecticut Good Roads & Construction Co., New Britain, $8569; John de Michiel & Bro., Torrington, $7975; Louis Longhi & Bro., Torrington, $8009. Plainfield Township, about 6875 lin.ft. gravel on the Canterbury Rd., Ahern Construction Co., Willimantic, $8976; Alco Construction Co., 178 North St., Boston, $7885; Fred H. Gilbert, Jewett City, $7197; Goodman & Trumbull Co., Litchfield, $7802; A. D. Bridge's Sons, Inc., Hazardville, $7496; John Arborio, 172 Congress Ave., New Haven, $7167; Frank A. Wilcox, Norwich, $7266; Louis Longhi & Bro., Torrington, $7285; A. Brazos & Sons, Middletown, $9476; Fred D. Miller, Norwich, Conn., $7639. Noted July 1.

Albany, N. Y.—(Official)—Bids were received June 7 by Edwin Duffey, State Highway Comr., for repairing highways, as follows:

Repair Contract No. 792, Albany, County, 7.69 miles: W. L. LAWTON, Glens Falls, $23,611 (awarded contract); Olin T. Benedict, Pittsfield, Mass., $24,309; De Graff & Hogeboom, Kingston, $25,866; A. J. Malloy, Schenectady, $25,868; Belmar Contracting Corporation, Inc., Troy, $26,856; James Anderson, Menands, $27,153; Thomas H. Karr, Troy, $28,404.

Repair Contract No. 806, Albany County, 2.02 miles: BELMAR CONTRACTING CORPORATION, INC., Troy, $10,516 (awarded contract); Huntoon & Ferguson, Hudson Falls, $10,603; James Anderson, Menands, $10,881; M. F. Dollard, Albany, $10,832; J. J. Malloy, Schenectady, $11,126; Olin T. Benedict, Pittsfield, Mass., $11,276; Thomas H. Karr, Troy, $12,039.

Repair Contract No. 799, Broome County, 0.31 mile: KINGSBURY & RYAN, Binghamton, $4449 (awarded contract); Frank Stento, Binghamton, $4972; Nash & Griffin, Norwich, $4990; Rock & Griffin, Massena, $5274; John H. Gordon, Albany, $5294; E. W. Walsh, Elmira, $5407; William R. Kimmey, Albany, $5426; Lee Du Bois, Lestershire, $5539.

Repair Contract No. 741, Cayuga County, 6.15 miles: SEMPER BROS., Watertown, $33,987 (awarded contract); Brayer Bros., Auburn, $34,082; Antonio Mondo, Syracuse, $34,369; Thomas Grady, Rochester, $34,778; J. H. Weidman, Syracuse, $35,858; Joseph McCormick, E. Providence, R. I., $36,092; John H. Gordon, Albany, $35,965.

Repair Contract No. 798, Cayuga County, 11.52 miles: DANA W. ROBBINS, INC., New York, $5933 (awarded contract); Pathfinder Construction Co., Inc., Fulton, $6096; Dale Engineering Co., Utica, $6106; Richard Hopkins, Troy, $6354; Brayer Bros., Auburn, $6400.

Repair Contract No. 791, Columbia County, 7.88 miles: HENRY CLINTON, Poughkeepsie, $3353 (awarded contract); Gleason & Davitt, Albany, $3821; Edward Hartney, Modena, $3983; Richard Hopkins, Troy, $4148; Westchester-Dutchess Corporation, Mt. Vernon, $4198; Marks Kearney, Hudson, $4254; Van Dusen Holsapple, Hillsdale, $4304; Conway Bros. & Kennedy, Eddyville, $4347; Brady-Oltarsh Construction Co., Inc., New York, $4568.

Repair Contract No. 788, Columbia County, 7.45 miles: WILLIAM DOYLE, Saugerties, $5116 (awarded contract); Thomas H. Karr, Troy, $5139; Gleason & Davitt, Auburn, $5192; Brady-Oltarsh Construction Co., Inc., New York, $5487; Westchester-Dutchess Corporation, Mt. Vernon, $5496; Richard Hopkins, Troy, $5789.

Repair Contract No. 787, Columbia County, 2.81 miles: WILLIAM DOYLE, Saugerties, $5085 (awarded contract); Marks Mearney, Hudson, $5275; Gleason & Davitt, Albany, $5418; Westchester-Dutchess Corporation, Mt. Vernon, $5831; Thomas H. Karr, Troy, $5837; Brady-Oltarsh Construction Co., Inc., New York, $5865.

Repair Contract No. 794, Columbia County, 7.63 miles: WILLIAM DOYLE, Saugerties, $4255 (awarded contract); Edward Hartney, Modena, $4391; Richard Hopkins, Troy, $4520; Thomas H. Karr, Troy, $4550; Gleason & Davitt, Albany, $4619; William R. Kimmey, Albany, $4619; Westchester-Dutchess Corporation, Mt. Vernon, $4674; Brady-Oltarsh Construction Co., Inc., New York, $4776; Conway Bros. & Kennedy, Eddyville, $5051.

Repair Contract No. 786, Delaware County, 7.69 miles: RUDDY-SAUNDERS CONSTRUCTION CO., Troy, $14,689 (awarded contract); McGreevey, McGuigan & Baum, Elmira, $16,419; Richard Hopkins, Troy, $16,966; Lane Construction Corporation, Meriden, Conn., $17,272; De Graff & Hogeboom, Kingston, $17,707.

Repair Contract No. 490, Dutchess County, 3.44 miles: HENRY CLINTON, Poughkeepsie, $9995 (awarded contract); Thomas J. Martin, Beacon, $10,258; William Doyle, Saugerties, $10,870; John A. Jova, Inc., Newburgh, $11,664; Westchester-Dutchess Corporation, Mt. Vernon, $11,901; Gleason & Davitt, Albany, $12,050.

Repair Contract No. 796, Erie County, 3.15 miles: COLD SPRING CONSTRUCTION CO., Buffalo, $16,971 (awarded contract); John W. Landel, Tonawanda, $18,765.

Repair Contract No. 805, Franklin and St. Lawrence Counties, 32.7 miles: HARRY W. ROBERTS & CO., Utica, $11,072 (awarded contract); Spellman-Oliver Co., Chateaugay, $11,116; E. T. Eggleston, Yonkers, $11,563; Richard Hopkins, Troy, $11,764; Dennis C. Flanigan, Watertown, $12,146; Rock & Griffin, Massena, $12,713.

Repair Contract No. 804, Greene County, 14.85 miles: CATSKILL CONSTRUCTION CO., Catskill, $7184 (awarded contract); Conway Bros. & Kennedy, Eddyville, $7267; William Doyle, Saugerties, $7460; Defiance Corporation, Ticonderoga, $7921; Westchester-Dutchess Corporation, Mt. Vernon, $8094; Richard Hopkins, Troy, $8843.

Repair Contract No. 797, Herkimer County, 8.78 miles: DANIEL B. DONOVAN, Rome, $11,440 (awarded contract); W. L. Lawton, Glens Falls, $13,813; John J. Guinan Contracting Co., Brooklyn, $13,837; John A. Jova, Inc., Newburgh, $14,347; Clarence Welsh & Co., Gloversville, $15,253; Newport Construction Co., Herkimer, $16,248.

Repair Contract No. 662, Madison County, 5.68 miles: J. H. WEIDMAN, Syracuse, $26,884 (awarded contract); Paddleford & King, Sherburne, $27,033; John H. Gordon, Albany, $27,146; Charles E. Haney, Camillus, $27,195; Conroy & Nixdorf, Oneida, $27,937; Harry W. Roberts Co., Utica, $28,143; Dana W. Robbins, Inc., New York, $28,918; R. D. Cooper, Little Falls, $29,740; Joseph McCormick, East Providence, R. I., $31,546.

Repair Contract No. 633, Monroe County, 1.39 miles: I. M. LUDINGTON SONS, INC., Rochester, $10,686 (awarded contract); Monroe Roads Co., Pittsford, $11,083; Ribstein-Holter Co., Inc., Rochester, $11,691; Whitmore-Rauber & Vicinius, Rochester, $12,538.

Repair Contract No. 676, Oneida County, 1.04 miles: PHELAN & SULLIVAN, Utica, $5972 (awarded contract); Charles E. Haney, Camillus, $6189; R. D. Cooper, Little Falls, $6379; John H. Weidman, Syracuse, $6489.

Repair Contract No. 782, Oneida County, 1.58 miles: HARRY W. ROBERTS & CO., Utica, $9011 (awarded contract); Charles E. Haney, Camillus, $9525; John H. Weidman, Syracuse, $9566; Paddelford & King, Sherburne, $9813; R. D. Cooper, Little Falls, $9992; Daniel L. Mott, Utica, $10,497.

Repair Contract No. 783, Oneida County, 1 mile: DANIEL O'CONNELL & SONS, Holyoke, Mass., $16,937 (awarded contract); Langan Contracting Corporation, Albany, $17,391; Harry W. Roberts & Co., Utica, $17,981; R. B. Cooper, Little Falls, $23,883.

Repair Contract No. 784, Oneida County, 4.02 miles: DANA W. ROBBINS, INC., New York, $5936 (awarded contract); Charles E. Haney, Camillus, $6132; Harry W. Roberts & Co., Utica, $6210; R. B. Cooper, Little Falls, $7166.

Repair Contract No. 801, Oneida County, 24.82 miles: HARRY W. ROBERTS & CO., Utica, $8490 (awarded contract); Dana W. Robbins, Inc., New York, $8974; Nash & Griffin, Norwich, $9148; County Construction Co., Troy, $9664; De Barber & Hill, Fulton, $9573; Richard Hopkins, Troy, $10,542.

Repair Contract No. 644, Ontario County, 5.68 miles: SEMPER BROS., Watertown, $16,531 (awarded contract); Chambers & Barnes, Rochester, $17,825; Thomas Grady, Rochester, $18,273; Dale Engineering Co., Utica, $18,444; J. W. Brennan Construction Co., Inc., Geneva, $18,950; Monroe Roads Co., Pittsford, $19,841; Ribstein-Holter Co., Inc., Rochester, $20,431.

Repair Contract No. 802, Ontario County, 7.37 miles: COUNTY CONSTRUCTION CO., Troy, N. Y., $4358 (awarded contract); Sweeney & Boland, Rochester, $4524; Dale Engineering Co., Utica, $4608; Crouch Bros., Rochester, $4880; J. W. Brennan Construction Co., Inc., Geneva, $5068.

Repair Contract No. 789, Orange County, 37.31 miles: EDWARD HARTNEY, Modena, $2736 (awarded contract); Westchester-Dutchess Corporation, Mt. Vernon, $3120; Defiance Corporation, Ticonderoga, $3229; William Doyle, Saugerties, $3229; Paul Gsanger, Monsey, $3229; Nash & Griffin, Norwich, $3278; John A. Jova, Inc., Newburgh, $3284; Schunnemunk Construction Co., Highland Mills, $3284; Headley Good Roads Co., Philadelphia, Penn., $3738.

Repair Contract No. 807, Rensselaer County, 5.94 miles: GLEASON & DAVITT, Albany, $30,931 (awarded contract); Olin T. Benedict, Pittsfield, Mass., $31,644; Huntoon & Ferguson, Hudson Falls, $31,663; Belmar Contracting Corporation, Inc., Troy, $31,766; James J. Ringney, Rensselaer, $31,930; Thomas H. Karr, Troy, $32,200; County Construction Co., Troy, $33,407; John B. Dower, Ballston Spa, $34,737.

Repair Contract No. 800, Rockland County, 3.90 miles: JOHN A. JOVA, INC., Newburgh $21,166 (awarded contract); Schunnemunk Construction Co., Highland Mills, $22,568; H. B. Sproul Contracting Co., Inc., Peekskill, $24,525.

Repair Contract No. 803, Rockland County, 3.53 miles: JOHN J. GUINAN CONTRACTING CO., Brooklyn, $17,585 (awarded contract); Paul Gsanger, Monsey, $13,261; John A. Jova, Inc., Newburgh, $18,783; H. B. Sproul Construction Co., Inc., Peekskill, $22,987.

Repair Contract No. 795, Saratoga County, 3.09 miles: WILLIAM J. MORRISSEY, Saratoga Springs, $13,497 (awarded contract); Gaylor Stone Co., Inc., Saratoga Springs, $14,633; Huntoon & Ferguson, Hudson Falls, $15,245; William L. Sherrill, Hudson Falls, $15,551; Thomas H. Karr, Troy, $15,692; Flood & Van Wirt Co., Hudson Falls, $16,106; T. A. Sullivan, Ballston Spa., $16,148; John B. Dower, Ballston Spa, $16,146.

Repair Contract No. 795, St. Lawrence County, 17.66 miles: P. J. KENNEDY, Brasie Corners, $5956; (awarded contract); Richard Hopkins, Troy, $6865; Spellman-Oliver Co., Chateaugay, $6906; DeBarker & Hill, Fulton, $6983; Rock & Griffin, Massena, $7255; Flood & Van Wirt Co., Hudson Falls, $7348; E. Eggleston, Yonkers, $7368.

Repair Contract No. 808, Schenectady County, 8.34 miles: HUNTOON & FERGUSON, Hudson Falls, $3800 (awarded contract); Defiance Corporation, Ticonderoga, $3879; J. J. Malloy, Schenectady, $4244.

Repair Contract No. 790, Westchester County, 14.87 miles: MIGUEL HOUCK, White Plains, $6679 (awarded contract); Tri-County Construction Co., Mt. Vernon, $7479; Westchester-Dutchess Corporation, Mt. Vernon, $7501; Defiance Corporation, Ticonderoga, $7507; Phillipsburg Construction Corporation, Yonkers, $7507; E. T. Eggleston, Yonkers, $7606; Hughes & Gardner, North Tarrytown, $7625; Dailey & Merritt, Portchester, $8443. Noted June 24.

★**Albany, N. Y.**—(Official)—Bids will be received until 1 p.m., Aug. 3, by Edwin Duffey, State Highway Comr., for repairing highways in various counties.

✚**Batavia, N. Y.**—The contract for paving Ellicott St. has been awarded to the THOMAS FITZGERALD CONSTRUCTION CO., Fredonia, at $12,067.

Boonville, N. Y.—Bonds for $11,000 were sold, the proceeds of which will be used for street paving.

✚**Islip, N. Y.**—A contract for constructing 200,000 sq.ft. of concrete sidewalk has been awarded to the CLIFFORD CONSTRUCTION CO., Jamaica (Borough of Queens).

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contracts have been awarded for regulating and repaving Lincoln Rd. from Bedford to Rogers Ave. and Vernon Ave. from Marcy to Tompkins Ave. and Tompkins Ave. from Vernon to Greene Ave., to the SICILIAN ASPHALT PAVING CO., 41 Park Row, at $6075 and $17,993, respectively; Pioneer St. from Van Brunt to Richards St. to the McFARLANE CONTRACTING CO., 504 Park Pl., at $6882. Noted June 24 and July 8.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., July 21, by L. H. Pounds, Borough, Pres., for regulating, grading, curbing and laying sidewalks on Montgomery St. from Utica to Schenectady Ave., Porter Ave. from Meeker Ave. to Anthony St., West 36th St. from Canal to Neptune Ave., 63rd St. from 21st Ave. to Bay Parkway and 81st St. from 19th to 21st Ave.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received July 8 by Maurice E. Connolly, Borough Pres., for improving portions of Van Alst Ave., as follows: F. B. Smith, Inc., $49,750; Clancy & Nuhn, $57,772; A. D. Gunner, $33,227; Thomas Crimmons Contracting Co., $82,820; James P. Hudson, $48,265; Evergreen Construction Co., $59,805; Anabel Construction Co., $40,156; Press Improvement Co., $46,764; Paladine Contracting Co., $109,840; Peace Bros., $90,500; Charles A. Myers Contracting Co., $70,840. Noted July 1.

✚**Belvidere, N. J.**—The contract for resurfacing the Allamuchy Rd. has been awarded to SALMON BROS., Netcong, at $3729, and for treating other macadam roads in the county with tarvia, at $8245. Noted June 24.

Burlington, N. J.—Bids will be received until July 26 by F. W. Parrott, County Audr., for paving one mile of county road.

Camden, N. J.—The City Planning Commission is negotiating for paving Federal St. from 27th St. to the city line.

✚**Jersey City, N. J.**—Contracts have been awarded for paving Pavonia Ave. with asphalt to W. T. S. CRICHFIELD, and Mercer St. with chipped blocks to PHILIP O'REILLY. Noted June 10 and 17.

Keyport, N. J.—Bids will be received about Sept. 1 by the Borough Clerk for paving Broad St. with concrete, at an estimated cost of $12,000. Noted June 24.

Newton, N. J.—The Township Board plans to improve Cooper's Glen Rd. from Sussex to Colesville with macadam. The Board will also resurface the Glove-Sussex macadam road.

Weehawken, N. J.—Bids were received July 6 for paving Clifton Terrace with (a) concrete block, (b) bituminous concrete, (c) bitulithic as follows: Hastings Paving Co., (a) $12,282; W. T. S. Crichfield, (a) $9549, (b) $7960; Uvalde Asphalt Paving Co., (a) $11,074, (b) $10,393; Nolan & Hornung, (a) $11,026, (c) $12,842; Clinton Contracting Co., (a) $9868, (c) $12,046. Noted May 29 and July 1.

Weehawken, N. J.—The Township Commission, July 6, approved plans and specifications for the improvement of Columbia Terrace.

✚**Philadelphia, Penn.**—The contract for grading Mitchell St. from Pennsdale St. to Walnut Lane has been awarded to AMOS W. BARNES, at $7748. Noted June 17.

Sewickley, Penn.—Press reports state that the Borough Council plans to construct a four mile boulevard.

Uniontown, Penn.—(Official)—Bids will be received until noon, July 27, by Harry Kisinger, Controller of Fayette County, for constructing 2800 lin.ft. of road in North Union Township and for furnishing and delivering 345,000 bricks f.o.b. Alicia or South Brownsville, for the Alicia Rd., in Luzerne Township.

✚**Baltimore, Md.**—Contracts have been awarded by the State Road Commissioners, Garrett Bldg., to McNERNEY CONSTRUCTION CO., Canton, Penn., to construct concrete roadway in Somerset County, from Marion to Hopewell, at $44,285; PENN CONSTRUCTION CO., 652 Equitable Bldg., Baltimore, to resurface Yord Rd. from Glencoe to Vernon, Baltimore, County 1.04 miles, at $7516; AUSTIN-BENNETT CONSTRUCTION CO., 321 Knickerbocker Bldg., Baltimore, to construct macadam roadway approaches, 1.02 miles, to Hoover Bridge in Caroline and Talbot Counties, at $9212.

✚**Baltimore, Md.**—Contracts have been awarded for paving Camden St. from Paca to Eutaw St. to the CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., at $6595; Tyson St. from Saratoga to Center St., Hargrove Alley from Federal to Trenton St. and other streets to MARTIN J. BEACH, Beck Lane, at $20,740. Noted June 3.

★**Cumberland, Md.**—(Official)—Bids will be received until 9:30 a.m., July 19, by the City Clerk for improving Baltimore St. between the Western Maryland Ry. and the Baltimore & Ohio R.R. James P. Gaffney is City Engr.

✚**Frederick, Md.**—(Official)—Bids were received July 3 for constructing approximately 1.83 miles of State Aid road near Petersville, and 1.04 miles in Brunswick as follows: M. J. Grove Lime Co., Lime Kiln, $34,028; C. H. Hoyt, $50,794; A. H. Gosnell, $35,780; Bester Long & Co., $39,764; Austin Bennett Construction Co.; $35,851; Thomas Bennett & Hunter, $38,835. Noted June 24.

Charles City, Va.—Bids will be received until noon, July 22, for constructing one mile of gravel road between Henrico and Charles City Counties.

★**Norfolk, Va.**—(Official)—Bids will be received until 1 p.m., July 29, by the Board of Control for paving certain streets.

Prince George, Va.—Press reports state that the Commissioners of Prince George County contemplate holding an election to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for improving and constructing roads.

Broad Oaks, W. Va.—(Clarksburg post office)—Bids will be received until 7 p.m., Aug. 2, by the Common Council for grading, curbing and paving with brick on concrete base Bridge, Point, Harrison, Marshall, Main and Daisy St. and Buckhannon Pike.

✚**Elkins, W. Va.**—(Official)—A contract for constructing a number of streets has been awarded to the ENTERPRISE CONSTRUCTION CO., Elkins. Noted June 17.

Huntington, W. Va.—Bids will be received until Aug. 3, by the Cabell County Commissioners for the construction of 15 miles of additional roads, including paving of eight miles of Kanawha and James River Turnpike, two miles Ohio River Rd., four miles Hamlin Pike and one mile Harveytown and Wayne County Pike.

Morgantown, W. Va.—An election will be held July 31 in Morgan and Union Districts for the purpose of voting on the question of issuing $50,000 and $120,000 in bonds respectively, the proceeds of which will be used for constructing roads.

Ronceverte, W. Va.—An election will be held July 31 to vote on the question of issuing $150,000 in bonds, the proceeds of which will be used for road improvement in Greenbrier District.

Salisbury, N. C.—See item under "Sewers."

Sarasota, Fla.—Bids will be received until July 24 by the City Council for paving portions of Palm and Strawberry Ave. F. P. Wright is Comr. Pub. Wks.

Greenwood, Miss.—(Official)—Bids will be received until 7:30 p.m., July 20, for constructing gravel or concrete pavement. Warner Wells is City Clk. and Stanley Cobham is City Engr.

Laurel, Miss.—Bids will be received until July 20 by D. F. Gardiner, City Clk., for street improvements. H. W. Bill is City Engr.

New Orleans, La.—Bids will be received until July 27 by A. G. Ricks, Comr. of Pub. Finances, for constructing a road from a point connecting with Chef Menteur Rd., near Chef Menteur, to Rigolets.

Thibodaux, La.—Press reports state that Lefourche Parish will soon vote on the question of issuing bonds, the proceeds of which will be used for improving highways in District No. 2.

Jasper, Tenn.—Press reports state that the citizens of Marion County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for constructing the Dixie Highway.

Memphis, Tenn.—Bids were received for improving Mississippi Blvd. from Calhoun Ave. to Lauderdale St., as follows: Southern Asphalt Construction Co., $11,628; L. W. Johnson, $9309; Memphis Asphalt & Paving Co., $9329.

✚**Owensboro, Ky.**—A contract for constructing 4¾ miles of macadam road has been awarded to MARTIN & MARTIN, Evansville, at $24,500.

Stanford, Ky.—According to press reports the citizens o Lincoln County will vote on the question of issuing $130,000 in bonds, the proceeds of which will be used for constructing roads.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 21, by the Commissioner of Purchases and Supplies for improving Jennings Rd.

Cincinnati, Ohio—(Official)—Bids will be received until noon, July 22, by Philip Fosdick, Dir. Pub. Ser., for improving Magnolia St. from Plum to Elm St., Wade St. from Plum to Elm St. and from Central Ave. to Providence St. and until July 23 for the improvement of intersection of Hopple and Beekman St., at the west end of viaduct.

✚**Cincinnati, Ohio**—The contract for improving the Compton Rd. from Hamilton Pike to Carthage Pike has been awarded to the JOHN REUBEL CONSTRUCTION CO., at $9138. Noted June 3.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., July 23, by Clinton Cowen, State Highway Comr., for improving a number of roads in various counties.

✚Columbus, Ohio—(Official)—Contracts have been awarded for road construction as follows: Licking County, Summit Extension, waterbound macadam, J. C. IMBODEN, Logan, $3375; Muskingum County, Zanesville-McConnelsville Rd., brick, WARD PATRICK & CO., $9927; Sandusky County, Sandusky-Clyde Rd., EARL WALTERS, Sandusky, $15,490; Franklin County, Columbus-Newark Rd., bituminous macadam, GRAHAM & KINNEAR, Columbus, $60,128; Union County, Marysville-Marion Rd., bituminous macadam, SYLVESTER BAUGHMAN, Marysville, $10,642. Noted June 24.

Cuyahoga Falls, Ohio—(Official)—Bids will be received until noon, July 28, by W. F. Williamson, Village Clk., for improving Portage Ave.

✚Mt. Gilead, Ohio—The contract for improving Foust Rd. in Westfield Township has been awarded to W. H. MILLER, Cardington, at $7064. Noted June 3.

Mt. Gilead, Ohio—Bids will be received until 11 a.m., Aug. 6, by C. O. Higgins, Audr. of Morrow County for improving and macadamizing the Sexon-Thatcher Rd. in Gilead and Canaan Townships.

✚Polk, Ohio—(Official)—Contracts for constructing ½ mile of concrete road 16-ft. wide, and 3½ miles of bituminous road, 14-ft. wide, have been awarded to E. F. DOWNS & CO., Toledo, at $7625 and $31,688 respectively. Noted June 24.

✚St. Clairsville, Ohio—(Official)—The contract for repairing and resurfacing a portion of High Ridge Rd., in Pultney, Pease, Colerain and Richland Townships has been awarded to SEIPLE & WOLF, Toledo, at $8000. Noted July 1.

✚Toledo, Ohio—Contracts have been awarded for paving Hoag St., to PETER H. WATTERS, $12,668; Summit St., to GARRIGAN BROS., $34,268; Forest St., to the ASPHALT BLOCK CO., $8909.

Wauseon, Ohio—Bonds for $9571 were sold July 5, the proceeds of which will be used for street improvements.

West Jefferson, Ohio—Bids will be received until July 26 by the City Clerk for paving Main St. with asphalt macadam, estimated to cost $42,000. Noted June 17.

West Park, Ohio—Bids will be received until noon, July 19, by Frederick Feuchter, Clk., for constructing sidewalks on a number of streets.

Woodstock, Ohio—At a recent election the question of issuing $4800 in bonds, the proceeds of which was to have been used for street paving, was defeated.

Indiana—(Official)—Bids will be received for road construction in Indiana as follows: Greensburg, until 1 p.m., Aug. 2., by the Commissioners of Decatur County for constructing roads in Fugit and Washington Townships; Albion, until 2 p.m., Aug. 2, by the Commissioners of Noble County, for constructing a road on line between York and Jefferson, Noble and Green Townships; Versailles, until 1 p.m., Aug. 2, by the Commissioners of Ripley County for constructing a crushed stone road in Johnson Township; Boonville, until 10 a.m., Aug. 3, by the Commissioners of Warrick County for the construction of a rock or concrete road in Boon Township; Valparaiso, until 2 p.m., Aug. 3, by the Commissioners of Porter County for constructing gravel roads in Morgan Center and Portage Townships; Noblesville, until 10 a.m., Aug. 3, by the Commissioners of Hamilton County for constructing a road in Washington Township and two in Wayne Township; Winchester, until 10 a.m., Aug. 3, by the Commissioners of Randolph County for constructing a road in Greene Township; Goshen, until 1 p.m., Aug. 3, by the Commissioners of Elkhart County for constructing a gravel, concrete or brick road in Elkhart Township.

✚Columbus, Ind.—The contract for constructing a crushed stone road in Hawcreek Township has been awarded to the MOORE & CHRIST CONSTRUCTION CO., Letts, at $8000.

✚Hartford City, Ind.—The contract for constructing a macadam road in Blackford County has been awarded to ALBERT CLAMME, Hartford City, at $11,740.

✚Jasper, Ind.—The contract for constructing a rock road in Patoka Township has been awarded to TRAYLOR & KREMPP, Jasper, at $9280.

✚Kokomo, Ind.—The contract for constructing a stone road in Clay Township has been awarded to MARTIN McHALE, Logansport, at $5024.

✚Liberty, Ind.—The contract for constructing a road in Union Township, Union County has been awarded to WILK & CO., Rushville, at $19,767.

✚Logansport, Ind.—The contract for constructing a road in Washington Township has been awarded to R. A. SULLIVAN, Peru, at $9999.

Portland, Ind.—(Official)—Bids will be received until 7 p.m., July 26, by the City Council for improving Commerce and Ship St.

✚Rensselær, Ind.—The contract for constructing a stone road in Carpenter Township has been awarded to TABER & HALLIHAN, Wabash, at $7218.

✚Rockville, Ind.—The contract for constructing the Rockville-Nyesville gravel road has been awarded to THOMAS WILSON, Montezuma, at $15,422. Other bids were: Frank L. Adams, $17,298; L. W. De Voto, $17,400; A. L. Tribble, $16,438; W. P. Harrison, $16,875.

✚Shelbyville, Ind.—The contract for constructing the Moral-Van Buren Township line gravel road has been awarded to CHARLES E. MOBERLY, Shelbyville, at $6959.

Birmingham, Mich.—Bonds for $23,300 have been sold, the proceeds of which will be used for street paving.

Mt. Clemens, Mich.—Bids will be received until 7:30 p.m., July 19, by A. A. Devantier, Clk., for paving North and Grand Ave.

Havana, Ill.—The City Council plans to pave a number of streets.

✚Peoria, Ill.—(Official)—The contract for improving Callender Ave. from Institute Pl. to Western Ave. has been awarded to JOHN W. BUSHNELL, at $6557.

Janesville, Wis.—(Official)—Bids will be received until 2 p.m., July 27, by the Board of Public Works for paving Wisconsin, South Bluff St. and Milton Ave.

✚Milwaukee, Wis.—The contract for paving Grand Ave. from Fourth to Eighth St. has been awarded to HENRY HASE, at $14,500. Noted June 24.

Sioux City, Iowa—(Official)—Bids will be received until 10 a.m., July 17, by Paul J. Wells, City Clk., for street paving.

Spencer, Iowa—(Official)—Bids will be received until 8 p.m., July 27, for laying 70,000 sq.yd. of pavement. E. O'Keefe is City Engr.

Norfolk, Neb.—Bids will be received until July 19 by P. F. Stafford, City Clk., for constructing 30,000 yd. of concrete pavement and 16,000 lin.ft. of concrete curb. Noted June 3.

✚Fargo, N. D.—The contract for paving Fourth St. has been awarded to S. BIRCH & SONS, at $26,122.

Butte, Mont.—Bids will be received about Aug. 7 by J. C. Driscoll, City Clk., for paving Main St., at an estimated cost of $15,000.

Hardin, Mont.—Bids will be received until July 20 by F. M. Lipp, Town Clk., for improving streets in District No. 1.

Walkerville, Mont.—The City Council plans to improve North Main St. from Lexington Mine to Daly St. by macadamizing, estimated to cost $10,000.

Independence, Mo.—The County Court will receive bids about Aug. 1 for widening and paving Van Horn Blvd., the old Santa Fé trail connection between Independence and Kansas City.

Kansas City, Mo.—Press reports state that bids will be received about Aug. 1 for grading portions of Donnelly, Jackson and Booth Ave. and 59th, Olive and Ninth St.

St. Joseph, Mo.—The Park Board is receiving bids for paving Noyes Blvd.

Caldwell, Tex.—(Official)—Bids will be received until 2 p.m., July 31, by the Commissioners of Burleson County for road improvements in District No. 1.

✚Clarksville, Tex.—The City Council has awarded a contract for paving 35 streets to McCULLAN & DALTON, Dallas. Noted Apr. 8 and May 20.

Cuero, Tex.—At a recent election the question of issuing $58,000 in bonds, the proceeds of which was to have been used for constructing roads in District No. 4, De Witt County, was defeated.

Ft. Stockton, Tex.—The construction of an automobile highway between Ft. Stockton and Grand Falls is being promoted by a committee of citizens representing the two towns. Most of the work will be on a stretch of road between Grand Falls and Salt Crossing, 18 miles. James Rooney, Mayor of Ft. Stockton, is interested in the project.

El Paso, Tex.—It is planned by the Commissioners' Court to use the proceeds of the $750,000 bonds to be voted on at an election to be held Aug. 3 in the construction of a concrete highway from the New Mexico-Texas State line to Fabens, in the Rio Grande Valley, a distance of 50 miles. The concrete material will be laid upon the top of the present paved road.

Port Lavaca, Tex.—An election will be held July 27 to vote on the question of issuing $17,000 in bonds, the proceeds of which will be used for constructing roads and bridges.

Seguin, Tex.—(Official)—Bids will be received until July 19 by the Commissioners of Guadalupe County for constructing six miles of road. Bonds for this purpose were sold recently. F. E. Hess, 1604 Southwestern Life Bldg., Dallas, is Engr.

✚Salt Lake City, Utah—The contract for paving West St. from First to Second South St. has been awarded to G. A HEMAN, at $9618.

✚Everett, Wash.—The contract for constructing Permanent Highway No. 18 has been awarded to WARD & TEMPLETON, Everett, at $13,694.

✚Mt. Vernon, Wash.—The contract for paving Cleveland Ave. has been awarded to M. E. MORRIS, Burlington, at $10,469. Other bids were: Grant-Evig & Co., Anacortes, $11,056; N. W. Ball, Seattle, $10,780; R. W. McKinstry, Mt. Vernon, $10,848.

✚Tacoma, Wash.—A contract for constructing concrete sidewalks in the North End District has been awarded to S. R. GRAY, Tacoma, at $9695. Other bids were: B. S. Davis, Tacoma, $10,474; Joseph Warter, Tacoma, $10,745; Macheller Bros., $9775.

✚St. Helens, Ore.—The Columbia County Court has awarded a contract for the construction of a section of the St. Helens-Pittsburgh Highway, near Houlton, to A. H. TARBELL, at approximately $40,000.

✚Burlingame, Calif.—The City Council has awarded a contract for street improvements to the RAISCH IMPROVEMENT CO., San Francisco, at $10,369. Noted May 20.

Sacramento, Calif.—Bids will be received until July 26 by the State Highway Commission, 515 Forum Bldg., for road construction, as follows: Colusa County, through Arbuckle, about 0.3 mile to be surfaced with asphalt; Marin County, between Burdell and St. Vincent, about four miles, to be graded; Monterey County, from Greenfield to Camphora, about 11.7 miles, to be paved with portland cement concrete; Santa Barbara County, from Gaviota Pass to Zaca Station, about 11.4 miles, to be graded; San Luis Obispo County, from Atascadero Creek to Paso Robles, about 10 miles, to be paved with portland cement concrete. Wilson R. Ellis is Secy. of the Comn.

✚San Diego, Calif.—The contract for grading Edgemont St. from Grape to Cedar St. has been awarded to the C. L. HYDE CONSTRUCTION CO., at $4426.

✚San Leandro, Calif.—The City Trustees have awarded a contract for street paving to the CALIFORNIA BITHULITHIC CO., at $64,696.

Amherstburg, Ont.—The Town Council plans to lay one mile of pavement on Sandwich and Aspley St. G. E. Pulford is Clk.

Renfrew, Ont.—Press reports state that the Town Council plans to pave Hall and Coombs St. with macadam, at an estimated cost of $7750. J. R. Stewart is Engr.

INDUSTRIAL WORKS

Fall River, Mass.—The Algonquin Printing Co. will build a three-story, 104x255-ft. addition to its plant.

Lowell, Mass.—The Appleton Co. will build a ten-story, 92x133-ft., reinforced-concrete storehouse to cost approximately $75,000. Noted June 3

New Bedford, Mass.—The Merchants' Terminal Warehouse Co., recently organized, will build an eight-story, 108x158-ft., concrete warehouse. James F. Bacon is Pres.

✚Salem, Mass.—C. S. CUNNINGHAM & SONS, 101 Tremont St., Boston, Mass., has been awarded the contract for the construction of a two-story, 54x97-ft., reinforced-concrete garage on Essex St., for G. H. Keefe, 46 Boston St. The estimated cost is $20,000.

Salem, Mass.—The Hygrade Incandescent Lamp Co. will build a four-story, 54x206-ft. brick factory on Federal St.

Springfield, Mass.—A. A. Geisel will build a two-story, 67x165-ft. garage and repair shop on Chestnut St. E. C. & G. C. Gardner is Arch.

✚Springfield, Mass.—The contract for the construction of a two-story, 69x101-ft. building for the Springfield Daily News has been awarded to FRED T. LEY CO., INC. H. L. Sprague is Arch.

Springfield, Mass.—The Springfield Union plans the construction of a three-story building on Fort St., for its mechanical department.

Springfield, Mass.—M. C. Barrett, 600 State St., will build a 62x66-ft., brick garage to cost $12,000.

Ansonia, Conn.—The Farrell Foundry & Machine Co. will build a 120x226x400-ft., brick and reinforced-concrete building to cost $100,000. James E. Brooks, Bloomfield, N. J., is Arch.

Ansonia, Conn.—The American Brass Co., plans the construction of buildings at its A. B. C. Branch as follows: A 100x220-ft. rolling mill, to cost $100,000; a 132x148-ft. casting shop, to cost $100,000; a metal storage building, to cost $100,000; an 85x95-ft. coal pocket, to cost $10,000; and a 55x75-ft. ash reducing plant, to cost $8000; all of reinforced-concrete and brick.

Bridgeport, Conn.—The Bridgeport Arms Co., Boston Ave., will build two five-story, brick and steel factories, to cost $200,000 each.

Hartford, Conn.—H. B. Beach & Co. will repair the damage to its factory on Mechanic St., caused by fire, at a cost of $15,000.

✚Herkimer, N. Y.—(Official)—Carl Haug, Arch., Little Falls, N. Y., has awarded the contract to STEPHEN HINES for the construction of a three-story, 60x90-ft. addition to the Royal Gem Mills. Joseph Reamy, St. Johnsville, N. Y., is Pres. Noted July 1.

✚Jamestown, N. Y.—The Gurney Ball Bearing Co. has awarded the contract for the construction of a one-story, 170x266-ft. factory on Chandler St. to the JAMESTOWN CONSTRUCTION CO. Noted Apr. 22.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received about Sept. 1 for the construction of a 200x300-ft. factory at Park and Nostrand Ave. for the American Tobacco Co., Kent Ave. The estimated cost is $500,000. Francisco & Jacobus, 200 Fifth Ave. (Borough of Manhattan) is Arch. Noted July 8.

Rochester, N. Y.—The Brewster-Gordon Wholesale Grocery Co. will build a five-story, 89x202 ft., reinforced-concrete warehouse on Canal St.

✚Rochester, N. Y.—(Official)—The TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo, has been awarded the contract for the construction of a three-story, 95x217-ft. reinforced-concrete factory and warehouse for the Vacuum Oil Co.

Syracuse, N. Y.—The Globe Malleable Iron & Steel Co., 101 Greenway Ave., will expend $200,000 for additions to its foundry.

Jersey City, N. J.—Plans have been prepared by R. W. Sailer, Arch., 75 Montgomery St., for the construction of a concrete garage and bakery at Montgomery and Merseles St. for the National Grocery Co. The estimated cost is $75,000.

Newark, N. J.—Franklin Gruman plans alterations to his brick factory at 77 St. Francis St., to cost approximately $17,000.

Fallston, Penn.—(New Brighton post office)—The C. C. & E. P. Townsend Co. will rebuild its factory which was recently destroyed by fire at a loss of $100,000.

Marcus Hook, Penn.—The contract will soon be awarded by Ballinger & Perrot, Arch., 1710 Arch St., Philadelphia, Penn., for the construction of a one-story, 153x423-ft. brick factory, and a two-story, 44x73-ft. brick and concrete factory for the Viscose Co.

Philadelphia, Penn.—William Steele & Sons Co., Arch., 1600 Arch St., has prepared plans for the construction of a four-story, 108x120-ft. factory at Second and Erie Ave. for the Thomas Potter & Sons Co., to replace the one recently destroyed by fire with a $50,000 loss.

Pittsburgh, Penn.—The Westinghouse Co., plans the construction of an ammunition factory, with a daily capacity of 200,000 rounds.

✚Riverside, Penn.—The Carpenter Steel Co. has awarded the contract for the construction of a one-story, 65x185-ft. annex to L. H. FOCHT & SON. The estimated cost is $25,000.

✚South Bethlehem, Penn.—The contract for the construction of a $350,000 benzol plant for the Lehigh Coke Co. has been awarded to the CARL STILL CO.

Baltimore, Md.—The Baltimore Enamel & Novelty Co., Woodall and Clement St., plans the construction of a 1-story, 300-ft. addition.

Baltimore, Md.—The Maryland Cold Storage Co. will soon award the contract for the construction of a $175,000 cold-storage plant.

✚Baltimore, Md.—The Baltimore City Garage Co. has awarded the contract for the construction of a four-story garage at 29 South Charles St., to JOSEPH C. SCHANBERGER. The estimated cost is $100,000. Wyatt & Nolting is Arch.

✚Baltimore, Md.—J. HENRY SMITH has been awarded the contract for the construction of a three-story, 39x111-ft. brick warehouse at 14 South High St., for the Joseph Fisher Specialty Co. The estimated cost is $20,000. George R. Callis, Jr., is Arch.

Baltimore, Md.—John T. Buckley, 916 Bolton St., will build a one-story garage at an estimated cost of $15,000.

✚Suffolk, Va.—HARWOOD & MOSS, Newport News, Va., has been awarded the contract for the construction of a two-story, reinforced-concrete storage warehouse for the Holland-Lee Co. A. T. Holland is Pres.

Wheeling, W. Va.—(Official)—The Saturn Machine Co. plans the construction of a brass foundry. E. W. Krause is Mgr.

✚Akron, Ohio—The contract for the construction of three additions to the plant of the Goodyear Tire & Rubber Co. has been awarded to the HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg. Estimated cost, $400,000. Noted July 8.

✚Cleveland, Ohio—The Frantz-Premier Co., Leader-News Bldg., has awarded the contract for the construction of a four-story, 61x320-ft. factory and a 38x50-ft. foundry at Ivanhoe Rd. and the New York, Chicago & St. Louis R.R. to the SAMUEL AUSTIN & SON CO., 14,230 Euclid Ave. The estimated cost is $115,000. Noted July 1.

✚Cleveland, Ohio—The contract for the construction of a factory at East 55th and Superior Ave., for the Richman Bros. Co., Prospect and Ontario St., has been awarded to the HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg. Estimated cost, $250,000. Noted June 10.

Cleveland, Ohio—Plans have been prepared by the W. S. Ferguson, Arch., 615 Euclid Bldg., for the construction of a one-story, 80x120-ft. factory for the Cleveland White Metal Co., 8005 Melrose Ave. The estimated cost is $60,000.

Cleveland, Ohio—The Standard Welding Co., West 76th St. and New York Central R.R., plans the construction of a $100,000 plant.

✚Cleveland, Ohio—The contract for the construction of an 80x360-ft. factory on East 61st St. for the Hydraulic Pressed Steel Co. has been awarded to the SAMUEL W. EMERSON CO., Chamber of Commerce Bldg. Noted July 1.

Columbus, Ohio—The contract for the construction of a warehouse for Rosenthal Bros., on West Spruce St., has been awarded to D. W. McGRATH, at $32,500. Riebel & Son, is Arch.

Fostoria, Ohio—The contract will soon be awarded by J. M. Myers, Pres. of the Fostoria Provision Co., 106½ Main St., for the construction of a packing plant.

Hamilton, Ohio—Bids are being received for the construction of a two-story brick warehouse at Seventh St. and Maple Ave. for the B. H. Kroger Grocery & Bakery Co. The estimated cost is $25,000. J. P. Mormer is Local Mgr.

✚Toledo, Ohio—THEODORE STERRITT, Detroit, Mich., has been awarded the contract for the construction of a seven-story reinforced-concrete warehouse at Spielbusch Ave. and State St. for the Scheiwe Storage Co., 645 Ohio Bldg. Manfred M. Stophlet is Arch. Noted Apr. 8.

Toledo, Ohio—Gortland Bros., Marion, Ind., plans the construction of a foundry. Estimated cost, $40,000.

✚Toledo, Ohio—The contract for the construction of a two-story, brick and stone storage building on Palmwood Ave. for the De Vilbiss Mfg. Co., has been awarded to JACOB JACOBS. Manfred M. Stophlet is Arch.

Uhrichsville, Ohio—The United States Clay Products Co. plans the construction of a three-story, 80x256-ft. building with a 35x112-ft. annex, and 12 kilns, 36 ft. in diameter. The estimated cost is $95,000. S. L. Weaver is Arch.

Indianapolis, Ind.—The E. C. Atkins Co. will build a two-story, 100x400-ft. reinforced-concrete addition to its plant to cost $130,000.

Tell City, Ind.—The Southwestern Furniture Co. plans the construction of a factory.

✚Bay City, Mich.—THE BAY CITY STONE CO. has been awarded the contract for the construction of a one-story, 80x210-ft. storage building, and a two-story, 70x298-ft. factory on Marquette and Sidney St., for the Bigelow Cooper Co.

✚Detroit, Mich.—The H. C. CHRISMAN CO. has been awarded the contract for the construction of a four-story, brick and steel factory on Russell St., for the Detroit Wire Spring Co. Albert Kahn, 58 La Fayette Ave., is Arch. Noted July 8.

Detroit, Mich.—A permit has been granted to the Hudson Motor Car Co. for the construction of a two-story, 60x180-ft., and a three-story, 60x100-ft. addition to its plant at Jefferson Ave., E., and Conner's Creek. The estimated cost is $40,000. Albert Kahn, 58 LaFayette Ave., is Arch.

✚Detroit, Mich.—The Rands Mfg. Co., Holden Ave., has awarded the contract for the construction of a three-story, concrete addition to its plant to the W. E. WOOD CO., Ford Bldg. The estimated cost is $20,000.

Detroit, Mich.—The Schleider Mfg. Co., Fort St., E., will build a one-story, concrete plant on East Grand Blvd., to cost $19,000.

Detroit, Mich.—The Timken-Detroit Axle Co. will build a four-story factory to cost $60,000 and a one-story garage to cost $5000, on Clark St.

Detroit, Mich.—The Rands Mfg. Co. will build a two-story factory on Holton St., to cost $20,000.

Chicago, Ill.—The American Car & Foundry Co., Railway Exchange, will build a one-story steel-car shop at 2416 South Paulina St., to cost $20,000. A. A. Bown is Arch.

Chicago, Ill.—The Sidlo Steel Co. will build a five-story, brick factory at 2350 Canal St., to cost $30,000. C. A. Eckstrom, 5 North La Salle St., is Arch.

Chicago, Ill.—The Galena Signal Oil Co., 80 East Jackson Blvd., has purchased 131,000 sq.ft. of land at 58th Ave. and 66th St., on which it will build a brick and concrete warehouse and distributing station to cost $50,000. Frank D. Chase, 122 South Michigan Ave., is Arch.

St. Paul, Minn.—The Willys Overland Co., Toledo, Ohio, plans the construction of a $250,000 warehouse. Royal R. Scott is Secy.

†St. Louis, Mo.—(Official)—O. R. S. Traber, Arch., Fullerton Bldg., has awarded the contract for the construction of a four-story, 48x96-ft. factory for Vivianno Bros., 1022 North Seventh St., to THEODORE H. RATZ, 2616 Vanderburgh Ave., at $27,000. Noted July 1.

†Corpus Christi, Tex.—Weil Bros. has awarded the contract for the construction of a 100x150-ft. warehouse on Tiger St., to OSCAR LUTZ.

Niles City, Tex.—The grain elevator of E. R. & D. C. Kolp, which was recently damaged by fire to the extent of $40,000, will be repaired.

†Avon, Calif.—(Martinez post office)—The Associated Oil Co. has awarded the contract for the construction of an addition to its plant to the WESTERN PIPE & STEEL CO., San Francisco, at $38,158. Noted May 20.

†El Modeno, Calif.—The contract for the construction of an 84x144-ft. addition to the packing house of David Hewes has been awarded to GEORGE PREBLE, Santa Ana. The estimated cost is $12,000. R. L. Folger is Arch.

†Los Angeles, Calif.—The Rudger-Merle Co. has awarded the contract for the construction of a three-story warehouse at 532 South Alameda St. to the ALTA PLANING MILL CO., at $53,000. William Curlett & Son is Arch.

San Francisco, Calif.—The Harbor Warehouse Co., North Point and Kearing St., will build a two-story, 133x205-ft., brick warehouse at Bay and Kearny St., to cost $30,000.

San Francisco, Calif.—A four-story building will be constructed at Fourth and Brannan St. for the John Bollman Co., at an estimated cost of $200,000. C. P. Weeks, Mutual Bank Bldg., is Arch.

Victorville, Calif.—The Southwest Portland Cement Co. will build a plant to have a daily capacity of 2500 bbl. of cement. Carl Leonardt, Los Angeles, is Pres. Estimated cost, $1,000,000.

Ottawa, Ont.—Bids are being received by W. H. George, Arch., Castle Bldg., for the construction of a brick and concrete garage for M. Landreville. The estimated cost is $20,000.

Toronto, Ont.—The Borthwick Bakery will build a two-story addition to its plant to cost $14,000.

Vancouver, B. C.—The McLaughlin Motor Car Co., 1219 Georgia St., will build a reinforced-concrete garage to cost $75,000.

FEDERAL GOVERNMENT WORK

†Post Office—Mt. Vernon, N. Y.—The contract for the construction of the post office at Mt. Vernon has been awarded to JOSEPH DI BENEDETTO, 423 East 115th St., New York, at $87,737. Noted May 27 and July 1.

Dredging—New York, N. Y.—Bids will be received until noon, Aug. 2, at the U. S. Engineer Office, Room 707 Army Bldg., New York, for dredging in Hempstead and Huntington harbors.

★Dredging—Philadelphia, Penn.—Bids will be received until noon, Aug. 9, at the U. S. Engineer Office, Philadelphia, for dredging in Delaware River on Bellevue and Cherry Island lighthouse ranges.

Riprap—Philadelphia, Penn.—Bids were received July 8 by Col. George A. Zinn, Philadelphia, for constructing about 12,000 tons of riprap along the channel face on the bulkhead in the Delaware River at the lower end of Artificial Island as follows: C. R. Simpson, 170 Broadway, New York, N. Y., $1.72 per ton; Ellis D. Thompson, 1505 Arch St., Philadelphia, Penn., $1.89; Coast & Lakes Contracting Corporation, 41 Broad St., New York, N. Y., $1.39 (will probably be awarded contract); Edwin S. Sickles, New Baltimore, N. Y., $2.18. Noted June 22.

Boiler Plant—Indian Head, Md.—Bids were received July 3, by the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of an extension to the existing boiler plant at the U. S. Naval Proving Grounds, Indian, Head: (a) on Government specifications; (b) on bidder's specifications, as follows: Day & Zimmerman, Philadelphia, Penn., (b) $192,144; John W. Danforth Co., Buffalo, N. Y., (a) $169,987; Evans, Almiral & Co., New York, N. Y. (b) $191,831. Noted June 3.

†School—Washington, D. C.—Contracts for the construction of the superstructure of High School No. 174, known as the Colored High School, have been awarded as follows: Construction proper P. F. GORMLEY CO., Washington, at $260,767; plumbing, STANDARD ENGINEERING CO., Washington, D. C.; heating, DRIGS, DISTERN & STRINGER, Baltimore, Md., at $61,317 and stack, HEINE CHIMNEY CO., New York, N. Y., $1786. Noted May 20.

Sewers—Washington, D. C.—Bids were received July 7, by the Commissioners of the District of Columbia for the construction of sewers as follows: (a) George Hyman, Washington, (b) Warren F. Brenizer Co., Washington, (c) Continental Contracting Co., Baltimort, Md., (d) William F. Cush, Washington: Service sewers, ordinary excavation, (a) $0.50, (b) $0.65, (c) $1.85, (d) $0.60; sewer brick masonry, (a) $14, (b) $14, (c) $15, (d) $14; 12-in. diameter sewer pipe, (a) $0.55, (b) $0.70, (c) $1.35, (d) $0.62; 10-in. diameter sewer pipe, (a) $0.45, (b) $0.60, (c) $1.20, (d) $0.60; Northhampton St. Outlet Sewer; ordinary excavation, (a) $0.60, (b) $0.50, (c) $2.75, (d) $0.60; sewer brick masonry, (a) $16, (b) $16, (c) $18, (d) $14; 12-inich diameter sewer pipe, (a) $0.80, (b) $0.95, (c) $1.85, (d) $0.62.

★Sidewalks—Washington, D. C.—Bids will be received until 2 p.m., Aug. 10, by the Board of Commissioners for constructing concrete sidewalks in the District of Columbia.

★Steel Barges—Vicksburg, Miss.—Bids will be received until noon, Aug. 12, by the Officer of the Third Mississippi River District, P. O. box 404, Vicksburg, for six steel barges.

Post Office—Ypsilanti, Mich.—Bids will be received until 3 p.m., Aug. 20, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the U. S. post office complete.

†Canal Work—Great Falls, Mont.—The contract has been awarded to the TWO-MIRACLE CONCRETE CORPORATION, Great Falls, at about $31,000, for constructing Panlo laterals A and 31 A, Flathead Irrigation project.

★Post Office—Blackwell, Okla.—Bids will be received until 3 p.m., Aug. 19, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the U. S. post office at Backwell.

★Cylinder Gates—Yakima, Wash.—Bids will be received until 2 p.m., July 19, by Morris Bien, Act. Dir., U. S. Reclamation Service, Dept. of the Interior, Washington, D. C., for two c.-i. cylinder gates of 12 ft. diameter for service under 100 ft. head for the Keechelus Reservoir, Yakima Project, and a duplicate set. Noted July 19.

Subtreasury—San Francisco, Calif.—Bids were received July 7, by the Supervising Architect, Treasury Dept., Washington, D. C., for changes in the Subtreasury building, San Francisco, Calif. as follows: Williams Bros., $15,300; C. A. Day Co., $16,125; Harvey A. Klyce, $15,670; Grant Fee, $12,500; Lange & Bergstrom, $17,500; B. F. Owsley, $10,800; Construction Engineering Co., $9760; Campbell Building Co. of Utah, Salt Lake City, Utah, $12,800. Above bidders are of San Francisco unless otherwise specified. Noted June 10.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., July 16, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Structural Steel—Panama—Bids were received by Maj. F. C. Boggs, Corps of Engineers, U. S. A., General Purchasing Officer, The Panama Canal, Washington, D. C., for furnishing structural steel and accessory parts for shed on Pier No. 7, Atlantic Terminal, consisting of 4,265,000 lb. structural steel, 16,700 lb. handrailing, and 36,000 lb. downspouts, (a) fabricated and delivered at the Isthmus, (b) fabricated, delivered and erected as follows: Belmont Iron Works, Philadelphia, Penn., (a) $115,201; McClintic-Marshall Construction Co., Pittsburgh, Penn., (a) $114,685; Milliken Bros., 17 Battery Pl., New York, N. Y., (a) $98,478; Penn Bridge Co., Beaver Falls, Penn., (b) $138,949; Pennsylvania Steel Co., Steelton, Penn., (a) $99,898; Riter-Conley Mfg. Co., Pittsburgh, Penn., (a) $106,378; (b) $140,751; United States Steel Products Co., New York, N. Y., (a) $118,180, (b) $144,588. Noted July 1.

Piers—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., Sept. 18, by H. R. Stanford, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing reinforced-concrete torpedo boat piers at the Naval Station, Pearl Harbor.

MISCELLANEOUS

†Dredging—Boston, Mass.—The Board of Harbor and Land Commissioners has awarded the contract for dredging the channel at South River, Salem, to the BAY STATE DREDGING CO., 172 Condor St., Boston, at (a) 33c. per cu.yd., (b) $10 per cu.yd.

Dredging—Boston, Mass.—The following bids were received July 7 by the Board of Harbor and Land Commissioners for dredging the channel of Ipswich River, Ipswich: John H. Gerrish, 101 Tremont St., Boston, (a) $0.317 per cu.yd., (b) $6 per cu.yd.; Bay State Dredging Co., Ltd., 247 Atlantic Ave., Boston, (a) $0.322 per cu.yd., (b) $8 per cu.yd.; Eastern Dredging Co., Ltd., 172 Condor St., East Boston, (a) $0.325 per cu.yd., (b) $9.50 per cu.yd. William F. Williams is Ch. Engr.

★Interior Skylights—Albany, N. Y.—(Official)—Bids will be received until noon, July 27, by the Trustees of Public Buildings, Executive Chamber, Capitol, Albany, for the restoration of interior skylights over the western staircase of the State Capitol.

Fire Alarm System—New York, N. Y.—(Borough of Manhattan)—The Board of Estimate has authorized an issue of $879,588 in bonds to be used for the construction of a fire alarm system in the Borough of Manhattan.

Dredging—New York, N. Y.—(Borough of Manhattan)—Bids will be received until noon, July 21, by R. A. C. Smith, Comr. of Docks, Pier A, Battery Pl., for dredging the dumping boards of the Department of Street Cleaning, Boroughs of Manhattan, the Bronx and Brooklyn.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—The only bid received by Robert Adamson, Fire Comr., for furnishing and delivering 24 motor-driven hose wagons under three separate contracts, each providing for eight, was that of the International Motor Co., 64th St. and West End Ave., New York. (a) $28,938, (b) $28,938, (c) 28,938, total, $86,814. Noted July 1.

Street Signs—New York, N. Y.—(Borough of Manhattan)—Bids will be received until July 15 by Marcus M. Marks, Borough Pres., for furnishing 500 street sign container frames, each frame to contain two enamel street signs.

★Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until July 30 by the Public Service Commission, 154 Nassau St., for the construction of Section No. 3, Routes Nos. 4 and 36, a part of the Broadway Subway lying between 38th and 51st St.

Dredging—New York, N. Y.—(Borough of Brooklyn)—Bids will be received by R. A. Smith, Comr., Docks and Ferries, Pier A., Battery Pl. (Borough of Manhattan), until noon, July 16, for dredging in Mill Basin, Jamaica Bay.

✚Pier—New York, N. Y.—(Borough of Brooklyn)—The contract for the construction of a pier at the foot of 30th St., to be known as the 30th St. pier, has been awarded to W. P. SEAVER, INC., Grand Central Terminal, New York, at $196,263. Noted June 10 and 24.

Pier—New York, N. Y.—(Borough of Brooklyn)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier A, Battery Pl. (Borough of Manhattan) until noon, July 15, for building a new pier at the foot of 35th St.

★Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of Section No. 3, Route No. 12, of the Eastern Parkway Subway.

★Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of Section No. 2, Route No. 29, of the Nostrand Ave. Subway.

Track Materials—New York, N. Y.—(Borough of Brooklyn)—The following bids have been received by the Public Service Commission for a three-track elevated railroad beginning at a point near 38th St. and 10th Ave. and extending thence to 10th Ave.; thence over 10th Ave. and New Utrecht Ave. to a point at or near 81st St. thence to a point in 86th St. to a point at or near Bay 41st St.; thence over 26th Ave. to Stillwell Ave.; and thence over Stillwell Ave. to a point at or near Ave. Y: Ward & Tully, $71,355; W. F. Jordon, $78,525; Joseph A. McElroy, $75,183; Joseph J. Klien, $116,436; Post & McCord, $82,639; Degnon Contracting Co., $85,000; Charles Cooper, $102,500; Holbrook, Cabot & Roilins, $103,781; Gibson & Gifford, $100,500; Joseph J. Frazer, $118,000; Snare & Triest, $94,864; Thomas Crimmons Contracting Co., $99,560.

★Subway Station—New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of the station finish on Section No. 2, Route Nos. 36 and 37, of the Astoria Elevated R.R.

★Subway Station—New York, N. Y.—Borough of Queens)—(Official)—Bids will be received until Aug. 3 by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of the station finish on Route No. 50 of the Queensboro Subway extension, and Section Nos. 1 and 3, Route Nos. 36 and 37, of the Corona Elevated R.R.

✚Grand Stand—Newark, N. J.—The Essex County Park Commission has awarded contracts for the construction of a grand stand in Weequahic Park, as follows: Steel work, LAVERING & GARRIGUES, $21,500; masonry, NEW JERSEY CEMENT CO., $21,532; carpenter work, H. N. DOREMUS & CO., $3987; roof and sheet metal work, JACOB STEINBERG, $5455. Noted May 20 and June 3.

Elimination of Grade Crossings—Crafton, Penn.—The Board of Trade has submitted plans to the City Council for the elimination of the grade crossings of the Pittsburg, Cincinnati, Chicago and St. Louis Division of the Pennsylvania R.R. at Crafton Ave. and Smily St. The estimated cost is $76,000.

Channel—Philadelphia, Penn.—The Maryland Dredging & Contracting Co., Baltimore, Md., at 2.49c. submitted the lowest bid for the construction of a channel in the Delaware River in the upper end of Philadelphia Harbor. The channel is to be 2000 ft. long, 1000 ft. wide and 35 ft. deep at mean low water. The work will involve the removal of about 900,000 cu.yd.

★Subway—Philadelphia, Penn.—(Official)—Bids will be received by A. M. Taylor, Dir., Dept. of City Transit, 754 Bourse Bldg., until noon, Aug. 16, for the construction of the City Hall station section of the Broad St. Subway and the Market St. Subway. This section will be about 700 ft. long and will include the underpinning of the west side of City Hall and the Market St. Subway. Noted Mar. 18 and July 8.

✚Drain—Salisbury, N. C.—L. O. WHITE, Statesville, at $14,500, has been awarded the contract for removing 331,591 cu.yd. of material and other work necessary to drain Withrow Creek. G. A. Brown is Chn. of Drainage Comn.

★Wharf and Warehouse—Augusta, Ga.—(Official)—Bids will be received until 4 p.m., July 22, by the City Council for the construction of a reinforced-concrete wharf and steel warehouse. Nisbet Winfield is Ch. Engr., River and Canal Comn. Noted June 24.

Levee Work—New Orleans, La.—The following are the lowest bids for the construction of the following levee work: H. W. Bond Bros. for the construction of the Aurora levee, Fifth District, at $28,622, for Orleans Levee Board; earthwork, $2040; sheet piling, $11,872; concrete, $24,900; Hampton Reynolds, at .174Sc. per cu.yd. for the levee from Southern Pacific R.R. terminal to the U. S. Naval Station; Lower Coast Construction Co., at .136c. for the upper station river side enlargement, Fifth District, and for filling in barrow pits from the U. S. Government Depot to the lower side of Audubon Park at .147c. Noted June 17.

✚Canal—Lexington, Tenn.—The Beech River Drainage District Board has awarded the contract for the construction of a canal to the TUPELO DREDGING CO., Tupelo, Miss. The estimated cost is $20,000. W. F. Appleby is interested.

★Trenching—Covington, Ky.—(Official)—Bids will be received until 10 a.m., July 29, by J. M. Howk, Comr. of Pub-Property, for pipe trenching and backfilling.

Telephone Cable—Columbus, Ohio—Bids will be received by H. L. Barger, Dir. of Pub. Safety, until noon, July 20, for furnishing approximately 25,000 ft. of high-grade rubber insulated lead covering telephone cable.

Elimination of Grade Crossings—Youngstown, Ohio—The Erie R.R. Co. is having plans prepared for the elimination of grade crossings through the business section of the city. Bonds for $800,000 have been sold for this purpose. The total cost of the work is estimated at $3,000,000.

Dredging—Indianapolis, Ind.—Bids will be received [illegible] the Board of Park Commissioners until 10 a.m., July [illegible] for dredging the lagoon in Garfield Park; also a portion of [illegible]easant Run between Shelby and Raymond St., and that portion of Bean Creek lying within Garfield Park.

Drainage—Chicago, Ill.—Bids were received June [illegible] by John McGillen, Clk., Sanitary Dist., for excavating side slopes and constructing pile and timber protection on North [illegible]shore Channel of Sanitary District in Evanston and Wilmette, as follows: Byrne Bros. Dredging & Engineering Co., (a) [illegible],000 cu.yd. excavation, 59c.; (b) 9500 lin.ft. piles, 47c.; (c) [illegible] M ft. timber, $75; Great Lakes Dredge & Dock Co., (a) 59c.; (b) 50c.; (c) $78.

Fire Hose—Oshkosh, Wis.—The City Council has authorized the Board of Public Works to advertise for bids for 1800 ft. of fire hose.

Drainage—Atlantic, Iowa—J. H. Mayne, Council Bluffs, is making preliminary surveys for draining about 100,000 cu.yd. of Indian Creek. Noted June 24.

Dam—Tonganopie, Kan.—Press reports state that the citizens contemplate the construction of a dam to extend 50 miles along Big Stranger Creek.

Fill—Grand Island, Neb.—Bids will be received by C. E. Neuman, Clk., Hall County, until 5 p.m., July 26, for the construction of a fill in the Platte River, between Sections 17 and 18, in Martin Township.

Ditch—Harrisonville, Mo.—The Supervisors of the Grand River Drainage District will soon award the contract for the construction of a 24-mile ditch in Cass and Bates Counties. C. L. Van Sandt is Secy.

Improvement to Creek—Kansas City, Mo.—The Board of Public Works has approved the plans of Curtis Hill, City Engr., for deepening and widening Turkey Creek along South West Blvd. Noted June 3 and July 8.

Ditches—Poplar Bluff, Mo.—Bids will be received by J. L. Chambers, County Clk., until 1 p.m., July 19, for the construction of nine ditches in Drainage District No. 10. The total yardage is 1,021,607 cu.yd.

Motor Fire Apparatus—St. Joseph, Mo.—An election will soon be held to vote on the question of issuing $150,000 in bonds, the proceeds of which will be used to purchase motor-driven hose carts and other equipment for the fire department.

✚Levee—Watson, Ark.—The Board of Directors has awarded the contract for the construction of the Redfork Levee to DENISON & ROGERS, at $1.75 per cu.yd.

Levee—Caldwell, Tex.—The date for receiving bids for levee work has been extended to July 31. R. S. Newson is Chn., Comrs. of Burleson County Improvement District No. 1. Noted June 3.

Levee—Ft. Worth, Tex.—According to press reports, the Mayor is in favor of constructing a levee at Holly Plant, estimated to cost $16,500.

✚Ditches—Port Lavaca, Tex.—The contract for the construction of 45 miles of ditches requiring 326,000 cu.yd. earth excavation in Seadrift Drainage District No. 3 has been awarded to HOWARD KENYON, Houston, at 12.95c. per cu.yd. T. H. Clement is Engr. Noted June 17.

Drainage—Grand Junction, Colo.—An election will soon be held to vote on the question of issuing $1,000,000 in bonds, the proceeds of which will be used for a drainage scheme.

Dam—Boise, Idaho—According to press reports the Utah Construction Co., Ogden, Utah, has decided to replace the Mackey Dam.

Fire Engine—Ogden, Utah—Bids will soon be received for an American La France fire engine to be used in the new fire station at Ninth and Washington St.

Drainage—Reno, Nev.—The bond issue of $21,000 for draining the Truckee River Drainage District has been defeated.

Ditch—Bellingham, Wash.—Bids will be received by W. D. Wallace, County Audr., until 10 a.m., July 27, for the construction of a ditch in Improvement District No. 9.

Dock—Seattle, Wash.—The Port Commission has granted a permit to the Fisher Flouring Mills Co. to extend its dock 50-ft. into the west waterway along the warehouse, a distance of 800-ft.

Dock and Warehouse—Seattle, Wash.—Plans are being prepared by J. R. West, Ch. Engr., Port of Seattle, for the construction of two wings to the dock and warehouse at the foot of Whatcom Ave. The estimated cost is $50,000.

Steamer—Seattle, Wash.—W. R. Grace & Co. will soon ask for bids on the construction of a new steamer, costing about $800,000.

Tunnel—Seattle, Wash.—The City Council and the County Commissioners have authorized Daniel Huntington, City Arch., to prepare plans for the construction of a tunnel to connect with the basement of the new courthouse. Estimated cost, $16,000.

✚Dock—Portland, Ore.—The Shell Oil Co. of California has awarded the contract for the construction of a dock at its new distribution plant on the Portland River front to the J. A. McEACHERN CO., INC., Colman Bldg., Seattle, Wash. The work involves about 35,000 lin.ft. of piling, 250 M ft. B.M. lumber and 10,000 lb. of iron. J. C. Storey, Northern Bank Bldg., Seattle, Wash., is Engr.

Dredge Equipment—Portland, Ore.—Bids will soon be received by the Commissioners of the Port of Portland for the installation of a ladder, cutting machinery and other equipment necessary to fit out the dredge of the port. The estimated cost is $22,500. E. W. Wright is Mgr. of Port.

Dredging—Portland, Ore.—The Chamber of Commerce has asked the Port of Portland Commissioners to consider either redredging north Portland harbor or constructing dikes to increase the depth of the channel to allow for the construction of coal chutes.

✚**Motor Fire Apparatus**—Portland, Ore.—The contract for furnishing the city with one 85-ft. aërial truck for the fire department has been awarded to A. G. LONG, Portland, at $11,950.

Pier—Hueneme, Calif.—The city plans to construct a pier to cost about $50,000. Charles Donlon, J. D. McGrath, A. Camarillo and J. F. Leonard are Members of the Com.

Pier—Redmondo, Calif.—Bids will be received by the Board of Trustees until July 16 for the construction of a reinforced-concrete pier, triangular in shape extending into the ocean a distance of 750 ft. It will be 40 ft. wide with a pavilion 200x200-ft. at the outer end. The estimated cost is $121,000. George W. Harding, Washington Bldg., Los Angeles, is Engr. Noted Apr. 1 and 29.

✚**Metal Furniture**—San Francisco, Calif.—The Board of Public Works has awarded a contract for the installation of metal furniture in the new City Hall to the CAPITOL SHEET METAL WORKS, at $15,228.

Pier—San Francisco, Calif.—The State Board of Harbor Commissioners is having plans prepared for the reconstruction of Pier No. 11. The estimated cost is $25,000. Leo V. Merle is Secy. of Bd.

✚**Snow Sheds**—Ladner, B. C.—According to press reports, the contract for the construction of snow sheds for the Kettle Valley & Vancouver, Victoria & Eastern Ry. in Coquihalla Pass has been awarded to the GUTHRIE-McDOUGALL CO., Portland, Ore.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Brookline, Mass.—Bids are being received by Andrews, Jasques & Rantoul, Arch., 50 Congress St., Boston, Mass., for the construction of a three-story addition to the high school to cost $125,000. Phillip S. Parker is Chn. of the Selectmen.

Lexington, Mass.—Plans are being prepared by Williard D. Brown, Arch., 15 Beacon St., Boston, Mass., for the construction of a two-story addition to the school. Arthur L. Blanchard, 73 Batterymarch St., Boston, Mass., is Chn. of the Bldg. Com. The estimated cost is $50,000. Noted June 24.

Swansea, Mass.—Henry Vaughn, Arch., Pemberton Sq., Boston, Mass., has plans in progress for the construction of a two-story high school to cost $50,000. Noted Mar. 11.

Westfield, Mass.—(Official)—The town voted $60,000 for the construction of a school. J. M. Dutton is Chn. of the Bldg. Com.

✚**Providence, R. I.**—(Official)—W. F. Fontaine, Arch., Woonsocket, R. I., has awarded the contract for the construction of a 66x151-ft. brick and stone church for St. Borromeo Parish to the P. J. TROTTIER BLDG. CO., East Providence, R. I. Noted June 24.

✚**Providence, R. I.**—(Official)—William R. Walker, Arch., 17 Custom House St., has awarded the contract for the construction of a three-story, 90x125-ft. theater for the Empire Realty Co. to WILLIAM WILLIAMS. The estimated cost is $125,000. Noted July 8.

Buffalo, N. Y.—Bids will be received until July 22 by Frank T. Reynolds, Dept. of Bldg. Comn. for the construction of a three-story addition to Public School No. 54, Main St. and Leroy Ave. The estimated cost is $75,000. Greene & Wicks, 110 Franklin St., is Arch. Noted Aug. 20.

Buffalo, N. Y.—Bids have been received for the construction of tuberculosis pavilions, service and ward buildings, psychopathic and administration buildings and a power house at the new City Hospital. John Lannen, Prudential Bldg., Buffalo, at $345,042, submitted the lowest bid on the general contract. Noted Apr. 29 and July 8.

✚**Ft. Plain, N. Y.**—The Board of Education has awarded the contract for the construction of a school to F. A. GASWELL, Syracuse, at $51,986.

Little Falls, N. Y.—Bids will be received about July 20, by W. L. Stoddart, Arch., 9 East 40th St., New York, for the construction of a four-story bank and office building for the National Herkimer County Bank. The estimated cost is $75,000. Noted June 24.

Mt. Vernon, N. Y.—Plans have been prepared by Clark, MacMullen & Riley, Arch., 101 Park Ave., New York, for the construction of a three-story telephone building at 35 South Sixth Ave. for the New York Telephone Co., 15 Dey St., New York. The estimated cost is $50,000. Noted Apr. 15.

Mt. Vernon, N. Y.—An appropriation of $45,000 has been made by the Board of Education for the construction of an addition to Public School No. 9 at East Fifth St. and Bedford Ave. George Howard, 60 South Third Ave., is Pres. and E. W. Robischon is Chn. of Bldg. Com.

New York, N. Y.—(Borough of Bronx)—The Board of Estimate of the Board of Education plans to expend $790,000 for the construction of additions and alterations to various schools in the Bronx. The amount includes $157,000 for two swimming pools, two gymnasiums and 12 classrooms for Public School No. 4, Fulton and Third Ave. and 173rd St.; $120,000 for an auditorium, swimming pool, gymnasium two workshops and a library for Public School No. 40, Prospect Ave. Jennings St. and Ritter Pl.; $115,000 for a swimming pool, auditorium, five shops and seven classrooms, for Public School No. 32, 183d St., Beaumont and Cambreling Ave.; $147,000 for a swimming pool, four workshops, two drawing rooms, two science rooms and eight classrooms for Public School No. 45, 189th and Hoffman St. and Lorillard Pl. Additions and alterations will also be made to Public Schools Nos. 2, Third Ave. near 169th St.; 5, Webster Ave. and 189th St., Fordham; 6, Tremont, Bryant and Vyse Ave., West Farms; 28, Tremont and Anthony Ave. and Mt. Hope Pl.; 44, Prospect Ave. and 176th St.; 50, Bryant and Vyse Ave.; 53, 168th St., Findlay and Teller Ave.

New York, N. Y.—(Borough of Brooklyn)—The Board of Managers of the Norwegian Hospital, Fourth Ave. and 46th St., Bay Ridge, plans the construction of a five-story addition. The estimated cost is $100,000. Emil Erickson is Pres. and Peter Berger is Secy.

Rensselaer, N. Y.—The Board of Education contemplates the construction of an addition and alterations to Public School No. 1 at Washington St. and Third Ave. Estimated cost, $40,000.

✚**Rochester, N. Y.**—The contract for the construction of a two-story store and school building at Clinton Ave., S., and Washington Park for the Rochester Business Institute has been awarded to GEORGE C. HOLLISTER. Estimated cost, $75,000. Alice R. May, Arlington Bldg., is Arch.

Scarsdale, N. Y.—Bids will be received until 8:15 p.m., July 26, by the Board of Education, School House, Post and Depot Rd., or by Herbert C. Lakin, Clk., Bd. of Education, 49 Wall St., New York, for the construction of a one-story brick school with an auditorium, on Post Rd. Guy Lowell, 225 Fifth Ave., New York, is Arch. Noted June 17.

✚**Schenectady, N. Y.**—The Mohawk Baths Co., 220 South Center St., has awarded the general contract for the construction of an addition to the eight-story hotel on Center St. to the J. F. GROWE CONSTRUCTION CO., 118 Hudson Ave., Albany. Estimated cost, $150,000. Noted June 17.

✚**Syracuse, N. Y.**—The Vocational High School Commission has awarded the general contract for the construction of the vocational high school to the PHELAN ENGINEERING & CONSTRUCTION CO., Hoboken, N. J., at $290,788. Noted June 17 and 24.

Syracuse, N. Y.—Bids will soon be received by D. R. Roney, Secy. Bd. of Contract and Supply for the construction of the Delaware School on Delaware and Geddes St. The estimated cost is $225,000. James A. Randall is City Arch. Noted May 27.

Syracuse, N. Y.—The lowest bid received by the Vocational High School Commission for the construction of the Vocational High School was submitted by the Phelan Engineering & Contracting Co., Hoboken, N. J., at $288,750, using Indiana limestone; $289,600, using cast stone; and $289,000, using terra cotta. Noted June 17 and 24.

White Plains, N. Y.—Contracts will be awarded about Aug. 1 by the Westchester County Building Commission for the construction of a 6½-story, 100x200-ft. county courthouse. The estimated cost is $800,000. R. W. Morris, 101 Park Ave., New York, is Arch. Noted Apr. 22 and June 24.

Bayonne, N. J.—All bids received July 1 for the construction of a parental school have been rejected by the Hudson County Parental School Board. New bids will be received until 10 a.m., July 14. Noted May 27 and July 1.

East Rutherford, N. J.—(Rutherford post office)—Bids will be received about July 15 by John T. Simpson, Engr., Essex Bldg., Newark, for the construction of a school. Estimated cost, $40,000.

✚**Hoboken, N. J.**—(Official)—The JERSEY CITY CONSTRUCTION CO., 75 Montgomery St., Jersey City, at $42,017, has been awarded the contract for the construction of additions and repairs to Public School No. 8. Noted June 17 and July 1.

Perth Amboy, N. J.—Bids will be received until July 19 by the Board of Education for the construction of an addition to the high school on State St. J. N. Pierson & Son is Arch. Noted Apr. 15 and 22.

Trenton, N. J.—Plans have been prepared by George S. Drew, State Arch., for the construction of a five-story, 40x95-ft. brick and stone building for the State Hospital. The estimated cost is $60,000.

✚**Ebensburg, Penn.**—The Directors of Cambria Title Savings & Trust Co. have awarded the contract for the construction of a building to the ANDREW J. ROBINSON CO., 123 East 23d St., New York, N. Y. Estimated cost, $60,000. Noted May 13.

✚**Philadelphia, Penn.**—H. H. WEYMEYER, Philadelphia, at $122,863, has been awarded the contract for the construction of a police and fire station at 22nd St. and Hunting Park Ave. Noted July 1.

Philadelphia, Penn.—Bids will be received about July 20 for the construction of a seven-story, 45x179-ft. building with four 45x175-ft. wings at 54th St. and Cedar Ave. for the Miserecordia Hospital. E. F. Durang & Son, 12th and Chestnut St., is Arch. Noted Apr. 1.

Philadelphia, Penn.—Bids will be received until July 20 by the Jewish Hospital for the construction of additions and alterations to the hospital at York and Tabor Rd. Magaziner & Potter, 137 South Fifth St., is Arch.

Philadelphia, Penn.—Cramp & Co., Denckla Bldg., Philadelphia, at $278,056, submitted the lowest bid for the construction of a three-story school at 65th St. and Lime Kiln Pike, East Germantown. Noted June 24 and July 8.

✚**Renovo, Penn.**—The contract for the construction of a two-story, 94x183-ft. school has been awarded to the SHAMOKIN LUMBER CO., Shamokin, at $76,500. Woodnutt & Schmohl, 150 West Fourth St., Williamsport, is Arch. Noted June 24.

Blue Mountain, Md.—Plans are being prepared by Baldwin & Pennington, Arch., Professional Bldg., Baltimore, for the construction of a three-story concrete hotel. The estimated cost is $150,000.

Roanoke, Va.—Bids will be received until Aug. 1, by the Melrose Baptist Church, for the construction of a 95x120-ft. building at Melrose Ave. and 12th St. Estimated cost, $50,000. N. T. Wingfield, Charlottesville, is Arch. Noted July 8.

Huntington, W. Va.—Plans are being prepared by McMichael & Cain, Arch., Richmond, Va., for the construction of a $100,000 church and a $100,000 building for women for the Baptist Church.

Weston, W. Va.—Bids will be received until noon, July 27, by J. S. Lakin, Pres., State Bd. of Control, Charleston, for the construction of a two-story, 63x306-ft. building at the Weston State Hospital. H. Rus Farne, Charleston, is Arch.

Florence, S. C.—The citizens voted in favor of issuing $232,000 in bonds. Of this amount $52,000 will be used for the construction of a school.

✚**Spartanburg, S. C.**—The contract for the construction of a seven-story, reinforced-concrete hotel to replace the Spartan Inn has been awarded to LONGEST & TESSIER, Greensboro, N. C. Estimated cost, $250,000. J. W. Allen is Chn. of Bldg. Com.

Atlanta, Ga.—Plans are being prepared by Morgan & Dillon, Arch., Grant Bldg., for the construction of a four-story, brick and steel building on Whitehall St. for Mrs. Mary G. Thurman. The estimated cost is $50,000.

Birmingham, Ala.—Plans have been prepared by Harry Wheelock and H. A. Stockman, Archs., for the construction of a two-story business building at First Ave. and 19th St. for T. H. Molton and Mrs. Annie Henley. Estimated cost, $50,000. Noted Feb. 4.

New Orleans, La.—The B. P. O. E. plans to construct a four-story clubhouse at Elks' Pl. near the Canal. The estimated cost is $150,000. John P. Sullivan is Chn. of Bldg. Com. Noted Dec. 3.

Memphis, Tenn.—The members of the Knights of Pythias contemplate the construction of a two-story store and lodge building. The estimated cost is $50,000. J. A. Goodman is Dir. of Bldg. Association.

✚**Louisville, Ky.**—The GEORGE H. ROMMEL CO., Louisville, at $130,000, has been awarded the contract for the construction of the Y. M. C. A. building at Second St. and Broadway. John Bacon Hutchings & Son, Columbia Bldg., is Arch. Noted June 10.

✚**Canton, Ohio**—(Official)—The INDIANA ENGINEERING & CONSTRUCTION CO., Ft. Wayne, Ind., at $81,000, has been awarded the contract for the construction of the three-story Henry S. Martin School at Third St., S. W. W. C. Lane is Clk., Bd. of Education. Noted July 1.

Canton, Ohio—Plans have been prepared by W. C. Owens & Co., Arch. and Engr., 449 Leader-News Bldg., Cleveland, for the construction of a four-story 87x200 ft. commercial building on North Market St., for C. N. Vickary, Canton.

✚**Canton, Ohio**—MELBOURNE BROS., 403-15th St., Canton, at $74,900, has been awarded the contract for the construction of the J. J. Burns School. W. C. Lane is Clk., Bd. of Education. Noted June 17.

Cincinnati, Ohio—Garber & Woodward, Arch., 2803 Union Central Bldg., has prepared plans for the construction of a two-story observatory for the Cincinnati Astronomical Society. The estimated cost is $50,000.

Cincinnati, Ohio—Plans are being prepared for the construction of a building for the Chamber of Commerce. The estimated cost is $1,000,000.

Cincinnati, Ohio—Work will soon be started on the construction of buildings at the Miami Medical College. C. R. Holmes, Harry Laws and Harry Levi, General Hospital, are interested. Noted June 17 and 24.

Cleveland, Ohio—A. M. Gordon Co., Illuminating Bldg., plans the construction of a hotel at East 79th St. and Hough Ave. Estimated cost, $300,000.

Cleveland, Ohio—Plans have been prepared by Willard Hirsh, Arch., 1302 Swetland Bldg., for the construction of telephone buildings on the West Side for the Ohio State Telephone Co. The estimated cost is $100,000. Noted June 24.

Cleveland, Ohio—Plans have been prepared by Meade & Hamilton, Arch., 1002 Garfield Bldg., for alterations and improvements to the clubhouse of the Union-Club, Euclid Ave. and East 12th St. Estimated cost, $150,000.

Cleveland, Ohio—Plans are being prepared by S. H. Weis, Arch., 1030 Schofield Bldg., for the construction of a two-story commercial building at Superior Ave. and East 113th St. for B. B. Given, Syracuse, N. Y. Estimated cost, $40,000.

✚**Marion, Ohio**—E. ELFORD, Columbus, has been awarded the contract for the construction of a two-story building on South Main St. for the Marion County Telephone Co. The estimated cost is $40,000.

✚**Milford Center, Ohio**—The contract for the construction of a school has been awarded to A. M. FRY, Piqua, at $41,919. Noted Apr. 8.

Oxford, Ohio—The Trustees of Miami University have approved plans prepared by Louis G. Dittoe, Arch., Cincinnati, for the construction of a dormitory to be known as George C. Ogden Hall. The estimated cost is $250,000. Noted Apr. 29.

✚**Toledo, Ohio**—The general contract for the construction of a five-story addition and alterations to the Niagara Hotel has been awarded to the H. J. SPIEKER CO., 409 Michigan St., Toledo. The estimated cost is $50,000.

✚**Van Wert, Ohio**—The contract for the construction of a four-story, 102x108-ft. brick and terra cotta building for the Y. W. C. A. has been awarded to the LARSON-DANIELSON CONSTRUCTION CO., Laporte, Ind. The estimated cost is $100,000.

✚**Kendallville, Ind.**—The LARSON-DANIELSON CONSTRUCTION CO., Laporte, Ind., at about $50,000, has been awarded the contract for the construction of a 10-room fireproof school building. Noted May 6.

Sullivan, Ind.—The citizens contemplate the construction of a court house for Sullivan County. The estimated cost is $250,000. W. S. Bicknell is Audr.

Terre Haute, Ind.—Plans have been prepared by A. H. Hubbard, Arch., 300 First National Bank Bldg., Champaign, Ill., for the construction of a building for the Masonic Temple Association. John S. Jordan is Chn., Bd. of Trustees. Estimated cost, $90,000.

Detroit, Mich.—E. R. Dunlap and L. Willeke, Archs., have prepared plans for the construction of a 12-story hotel at Cass Ave. and Peterboro St. for the Buckingham Hotel Co. The estimated cost is $300,000. J. Allen R. Wray and William J. Hendricks are interested.

✚**Newberry, Mich.**—The contract for the construction of a nurses' home, cottage and addition to the tuberculosis ward at the Newberry State Hospital has been awarded to HERMAN GUNDLACH, Houghton. Estimated cost, $70,000. Charlton & Kuenzli, Marquette, is Arch.

✚**Sandusky, Mich.**—(Official)—CHARLES COVELL, Ionia, at $74,528, has been awarded the contract for the construction of a three-story courthouse for Sanilac County. Sanford L. Utley is County Clk. Noted Mar. 11 and June 17.

✚**Sault Ste. Marie, Mich.**—The contract for the construction of the three-story 150x200-ft. Soo High School has been awarded to L. E. CHAUSSEE, Negaunee. Estimated cost, $150,000. John D. Chubb, 32 North Clark St., Chicago, Ill., is Arch.

Chicago, Ill.—Bids will soon be received by C. C. Taylor, Chn. of Bldg. Com., 39 South La Salle St., for the construction of an edifice for the Ninth Church of Christ, Scientist. The estimated cost is $100,000. Carl Barkhausen, 1[illegible] Wisconsin St., Milwaukee, Wis., is Arch. Noted June 24.

Peoria, Ill.—Contracts will be awarded about Aug. 1 for the construction of a two-story church for the Central Christian Church. The estimated cost is $50,000. Whitmeyer & Chaffee, 204 South Glenwood Ave., is Arch.

Rockford, Ill.—Contracts will be awarded about Aug. 15 by the Board of Education for the construction of a two-story grade school. The estimated cost is $80,000. Frank A. Carpenter is Arch. Noted Mar. 11.

Chippewa Falls, Wis.—Contracts will be awarded about Aug. 1 by C. H. Johnston, Arch., 715 Capitol Bank Bldg., St. Paul, Minn., for the construction of a three-story administration building for the Edward Rutledge Charity. The estimated cost is $50,000. Noted July 8.

Eau Claire, Wis.—Bids will soon be received by the Common Council for the construction of a city hall and municipal auditorium. Estimated cost, $50,000. George Awsumb, 14 East Jackson Blvd., Chicago, Ill., is Arch. Noted May 6.

Watertown, Wis.—Bids will be received until July 20 by the Board of Education for the construction of a two-story, 160x170-ft. high school. The estimated cost is $125,000. Parkinson & Dockendorff, La Crosse, is Arch. Noted Apr. 8.

Iowa City, Iowa—The Iowa State Board of Education plans to construct a library at the University of Iowa. The estimated cost is $700,000.

Jefferson, Iowa—Plans are being prepared by Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, for the construction of a two-story high school. The estimated cost is $55,000.

✚**Albert Lea, Minn.**—W. S. KINGSLEY, Faribault, has been awarded the contract for the construction of a six-story, fireproof, store and office building. Hoffman & Morse, Rochester, is Arch. Noted June 17.

Proctor, Minn.—Plans have been prepared by Vernon J. Price & Co., 608 Palladio Bldg., Duluth, for the construction of a school. The estimated cost is $40,000. Noted Feb. 25 and May 13.

✚**St. Paul, Minn.**—The STANDARD CONSTRUCTION CO., Plymouth Bldg., Minneapolis, Minn., has been awarded the general contract for the construction of a three-story, reinforced-concrete and brick academy for the Swedish Baptist General Conference of America. The estimated cost is $60,000.

Wheaton, Minn.—Edward F. Broomhall, Arch., 710 Alworth Bldg., Duluth, is preparing plans for the construction of a high school addition and gymnasium at Wheaton. Estimated cost, $40,000.

Winona, Minn.—The Board of Education contemplates the construction of a high school. The estimated cost is $100,000.

Dodge City, Kan.—The Sacred Heart Congregation contemplates the construction of a church and parochial school for boys. The estimated cost is $50,000.

✚**Kansas City, Kan.**—The general contract for the construction of a 67x80-ft., brick building for the congregation of the First Church of Christ, Scientist, has been awarded to EUGENE DRIER. The estimated cost is $40,000.

✚**Lincoln, Neb.**—The Board of Regents of the University of Nebraska has awarded the contract for the construction of a three-story, 65x141-ft. building with a two-story, 61x80-ft. addition at the State Farm to GOULD & SON, Omaha, at $113,657.

Schuyler, Neb.—Bids will be received until Aug. 15 by the Board of Education for the construction of a two-story, 80x110-ft. high school. Estimated cost, $40,000. Noted July 8.

✚**Milbank, S. D.**—(Official)—The contract for the construction of a courthouse has been awarded to J. B. EVANS CONSTRUCTION CO., Mexico, Mo., at $74,990. E. M. Harper is County Audr. Noted May 20 and June 24.

✚**Butte, Mont.**—(Official)—The contract for the construction of a high school, including a gymnasium and swimming pool for School District No. 1, Silver Bow County, has been awarded to the MONTANA CONSTRUCTION & ENGINEERING CO., 84 Owsley Blk., Butte, at $111,750. Other bidders were: Silver Johnston, Butte, Shoblom & Hexen, Butte; Kroffganz & Frank, Butte; S. P. Guimont, Anaconda. Noted May 20.

✚**Great Falls, Mont.**—The Board of Education has awarded the contract for the construction of the Emerson School on Second Ave., S., to RUDE & SEARLES, at $68,194.

Ozark, Mo.—The County Commissioners have been petitioned by the citizens to hold an election to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a county courthouse.

Little Rock, Ark.—(Official)—The STEWART McGEHEE CONSTRUCTION CO., Little Rock, at $45,000, has been awarded the contract for the contruction of a two-story school to be known as the U. M. Rose School. Noted July 1.

✚**Marshall, Tex.**—The CADDO CONSTRUCTION CO., Muskogee, Okla., at $74,480, has been awarded the contract for the construction of an administration building for the College of Marshall.

Walla Walla, Wash.—Bids will soon be received for the construction of a four-story building for St. Mary's Hospital. The estimated cost is $212,000. Robert Tegen, Journal Bldg., Portland, Ore., is Arch. Noted May 6 and June 3.

San Bernardino, Calif.—Plans are being prepared by Lyman Farwell, Story Bldg., Los Angeles, Calif., for the construction of a group of buildings for the new county hospital. The estimated cost is $150,000. Noted Mar. 11.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PROPOSED TEN-MILE CONCRETE ROAD IN PENNSYLVANIA

It is rather odd that Pennsylvania, the center of the portland cement industry, has practically no example of concrete road construction in its state highway system. The reason, however, is not far to seek. Since the institution of the State Highway Department there has been little or no money available for new construction. The state is very large, has many miles of road not naturally of the best materials, and has a large population, a great proportion of which own motor cars. Hence there has been a constant and insistent demand to keep all the highway system in good condition, leaving very little money, without the issuance of bonds, for building pavements of high first cost.

It has remained for the cement companies themselves to be the means of building a first-class concrete highway in Pennsylvania. Through the activity of the Hon. H. J. Steele, of Easton, Penn., the cement companies of the Lehigh Valley have agreed to contribute the cement for an 11 to 12 mile concrete pavement between Easton and Allentown, two famous homes of the portland cement industry. The State Highway Department has agreed to furnish the labor and supervision and it is expected the road will be completed during the present season.

Foremost in this work have been Col. H. C. Trexler, Pres. of the Lehigh Portland Cement Co., Allentown, and C. S. Brown, Pres. of the Alpha Portland Cement Co., Easton.

GRAIN ELEVATORS WANTED IN ARGENTINA

An inquiry has just been received by "Engineering News" asking American manufacturers to consider the construction of 60 to 80 grain elevators. Extracts from the letter, sent by A. U. Sassy, Calle San Martin 66, Buenos Aires, are as follows:

"I am negotiating at present a contract for some 60 or 80 grain elevators and would like to have you advise your friends who specialize in this line that they may bid on the job and with this object in mind I enclose a specification and data sheet, also sketch and plan of the style of elevator which I believe will fill the bill under the existing conditions. The plan has been drawn by a friend who has a very good knowledge of the conditons but he is not exactly an elevator expert and while I wish that the interested parties would be guided by his general ideas they are at liberty to improve upon the type and construction in any way they may see fit.

"As you may know, we cannot expect to buy locally any materials cheaper than they can be imported for and I shall be glad therefore to receive price on each type of elevator complete (that is including every thing down to nails and sundries) delivered c.i.f. Buenos Aires, mentioning gross and net weights also cubic measurements. I must call your attention to the fact that the information is most urgently wanted: in fact my securing the business will largely depend on how quick I get the data together and I shall esteem it a favor if you will please ask your friends to let me have bid with complete plans (outline and detail), sketches, data and specifications at the earliest possible moment. I would like to be advised as to their charges for sending down an expert to superintend the erecting and starting of the elevators.

"If I have not given all the information and data needed by your friends in order to get figures together kindly ask them to let me hear by cable and I will gladly give it to them.

"I may add that should the business be secured it would be financed, so far as the interested parties are concerned, through the local branch of the National City Bank and their Home Bank."

For those who desire further information a blue print and data sheet may be consulted at the office of "Engineering News," Tenth Ave. at 36th St., New York, N. Y.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry.—This company has petitioned the Council for a franchise to extend its double tracks from Merrimac St., North Andover, over the new Shawsheen Bridge into Sutton St. R. S. Goff, Boston, is Gen. Mgr.

Massachusetts—Massachusetts Northeastern St. Ry.—The Council has granted this company a franchise to relocate its tracks on Main St. and also at the curves into White St. and to Kenoza Ave. Franklin Woodman, Haverhill, is Vice-Pres. and Gen. Mgr.

Massachusetts—New York, New Haven & Hartford R.R.—According to press reports this company contemplates electrifying its Tariffville and Midland divisions. Edward Gagel, New Haven, is Ch. Engr.

New York—Binghamton Ry.—The Public Service Commission has ordered this company to extend its line from its present terminus to Port Dickinson. H. Tracy Rogers, Binghamton, is Supt. and Pur. Agt.

✚**Pennsylvania**—Johnstown & Somerset Ry.—This company has awarded a contract to the J. A. VANDERGRIFT CO., Somerset, Penn., for the construction of an electric railway from Johnstown to Somerset and Rockwood, about 40 miles.

Pennsylvania—Scranton & Binghamton Ry.—This company plans to extend its lines from Foster to Brooklyn, about five miles. Richard W. Day, Scranton, is Gen. Mgr.

Pennsylvania—Lehigh Valley Transit Co.—This company will double track its line on Broad St., West Bethlehem, Penn. Thomas Gibson, Allentown, is Pur. Agt.

✚**Virginia**—Petersburg & James River Electric Ry.—This company has awarded the contract for the construction of its line from City Point to Petersburg, about 11 miles, to PERKINSON & FINN, Petersburg. Noted July 8.

✚**West Virginia**—(Official)—Kanawha, Glen Jean & Eastern R.R.—This company has awarded the contract to BOARD & DUFFIELD, 1010 Virginia St., Charleston, for constructing its Dun Loop branch. V. S. Veazey, Glen Jean, is Ch. Engr. Noted May 20.

North Carolina—Alamance, Durham & Orange Ry. & Electric Co.—H. G. Palmer & Co., Yorkville, Ill., has been retained as engineer by this company for the construction of its proposed line from Ossippee to Durham, N. C. Noted June 24.

North Carolina—Eastern Tennessee & Western North Carolina R.R.—This company plans to extend its line from Pineola to Boone, about 18 miles.

South Carolina—Southern Ry.—This company has issued $3,500,000 in bonds, the proceeds of which will be used for double-tracking its line from Spartanburg to Central, New Holland and Cornelia, S. C., about 76 miles. B. Herman, Washington, D. C., is Ch. Engr.

South Carolina—Augusta-Aiken Ry. & Electric Corporation—This company has increased its capital stock for the purpose of constructing an extension of its line from Aiken to Columbia, S. C., about 50 miles. R. W. Spofford, Augusta, Ga., is Gen. Supt. and Pur. Agt.

Georgia—Ocilla, Pinebloom & Valdosta Ry.—The Henderson Lumber Co. has purchased the properties of this company including an 11-mile railway in Coffee County. The new owner, it is reported, will extend the line from Lax to Ocilla, about 15 miles.

Georgia—Pelham & Havana R.R.—This company contemplates extending its line from Darsey to Havana, about five miles. J. M. Wilkinson, Valdosta, Ga., is Pres.

Florida—Florida East Coast Ry.—Plans are being considered by this company for the extension of its line from Okeechobee to West Palm Beach. E. B. Carter, Jacksonville, is Ch. Engr.

Kentucky—Evansville, Henderson & Owensboro Ry.—This company will ask the council for a twenty year franchise to operate its cars on the city streets. If granted the franchise it plans to construct interurban lines to Owensboro, Morganfield and Providence.

Illinois—East St. Louis & Suburban Ry.—This company has asked the council for a franchise to extend its lines in East St. Louis to 19th St. and Baker Ave. A. J. Purinton is Gen. Supt. and Pur. Agt.

Illinois—Kankakee & Urbana Traction Co.—Surveys are being made by this company for the extension of its line from Ludlow to Paxton. William I. Laffell, Urbana, is Gen. Mgr.

Illinois—Peoria & Chillicothe Ry.—This company has completed surveys on its line from Peoria to Chillicothe and plans to start work within a short time. Noted Mar. 11.

South Dakota—Mitchell St. Car & Interurban Ry.—This company has been incorporated to construct an electric railway in Mitchell, S. D. A. N. Hill, Mitchell, and D. N. Hill, Lake Hills, Iowa, are interested.

Missouri—Jefferson City Bridge & Transit Co.—This company, it is reported, will extend its electric railway from Jefferson City to Columbia, Mo. D. W. Snyder, Jr., Jefferson City, is Gen. Supt.

Missouri—St. Louis Ry. & Dock Co.—This company has been incorporated to construct a railway from the south bank of the Missouri River near Columbia Bottom Rd., and thence southward to the vicinity of Van Buren and Catalan St. in St. Louis, about 25 miles. H. F. Bell is interested.

Missouri—Springfield Traction Co.—Plans are being considered by this company to extend its State St. line from New to Fort St., Springfield. Charles H. Guskel, Springfield, is Gen. Mgr.

Texas—Beaumont, Liberty & Houston Traction Co.—Surveys have been made and preliminary arrangements are being made by this company for the construction of its proposed line to connect Beaumont, Anahuac and Houston. J. H. McCracken is Gen. Mgr.

Texas—The City Council has granted a franchise to F. W. Davis and A. B. Phillips for the construction of a railway through Texas City.

Texas—Artesian Belt R.R.—This company plans to extend its line from Christine to Crowther and Beeville, Tex., about 50 miles. J. O. Terrell, San Antonio, is interested.

Texas—Southwestern Ry.—This company has decided to extend its line from Henrietta, Tex., to Waurika, Okla., about 25 miles. A. C. Parks, Henrietta, is Vice-Pres. and Gen. Mgr.

Utah—Ogden, Logan & Idaho Ry.—This company will soon start construction on a new electric line from Ogden to Brigham City; also on a new line from Willard to Bingham City.

Washington—According to press reports the Port Commission will soon receive bids for the construction of a belt railway to connect all the port facilities on the waterfront. J. R. West is Ch. Engr. of Comn. Noted July 1.

California—Pacific Electric Ry.—This company has asked the council for a franchise to double track its line to San Pedro via Gadena. J. McMillan, Los Angeles, is Gen. Mgr.

California—The franchise for the extension of the Brooklyn Ave. line on Evergreen Ave. to the east of the city limits has been sold by the Council of Los Angeles to P. D. Sornelius, Pres., Malabar Dist. Improvement Association. The franchise will be turned over to the Los Angeles Ry. without charge so that the extension may be built. Howard Huntington, Los Angeles, is Vice-Pres. and Gen. Mgr.

New Brunswick—Moncton Tramways, Electric & Gas Co.—Arrangements are being made by this company for the extension of its line on Bonaccord St., Moncton, N. B. E. B. Reeser, Farmers Bank Bldg., Pittsburgh, Penn., is Vice-Pres. and Gen. Mgr.

✚**Alberta**—Edmonton, Dunvegan & British Columbia Ry.—This company has awarded a contract for constructing about 60 miles of its line through the Grande Prairie District to G. H. WEBSTER, 1316 Prospect Ave., Calgary. Noted June 10.

LIGHT, HEAT AND POWER

Barnet, Vt.—It is reported that D. L. Judkins plans to construct a new power house on the bank of the Stevens River.

✚**Saundersville, Mass.**—The contract for the construction of a brick boiler house for the Saunders Cotton Mill has been awarded to the J. W. BISHOP CO. The estimated cost is $4000.

West Newbury, Mass.—Press reports state that the Newburyport Gas & Electric Co. of Newburyport has applied for permission to erect a transmission line from Pipestave Hill to the Groveland line.

Lincoln, R. I.—(Central Falls post office)—The Connecticut Power Co., 50 Congress St., Boston, Mass., has been granted a permit by the Town Council for the construction of a distributing station on Hazel St. This station will have an output of 25,000 kw. which will be distributed in Pawtucket, Providence and other towns and cities in the Blackstone Valley.

Altmar, N. Y.—It is reported that the Pulaski Electric Light Co., of Pulaski, a subsidiary of the Salmon River Co., will soon start work on the extension of its transmission lines to Altmar.

La Fargeville, N. Y.—It is reported that the La Fargeville Electric-Light Co. has petitioned the Public Service Commission for permission to construct electric light plants in Theresa and Orleans.

Spencerport, N. Y.—Bids will be received until 8 p.m., July 26, by the Town Clerk for the installation of an electric-lighting system. Bonds for $16,000 have been sold for this purpose.

✚**Philadelphia, Penn.**—(Official)—The contract for the heating and plumbing equipment for the new school at 65th St. and Lime Kiln Pike, East Germantown, has been awarded to S. FAITH & CO., 2427 Pennsylvania Ave., Philadelphia, at $51,344; the contract for the electric work was awarded to J. F. BUCHANAN & CO., 1228 Race St., Philadelphia, at $15,134. See item under "Buildings."

✚**Philadelphia, Penn.**—The Board of Education has awarded the contract for the heating system in the school at Second, Pike and Sanger St. to S. FAITH & CO., 2427 Pennsylvania Ave., Philadelphia, at $9981. See item under "Buildings."

Shamokin, Penn.—It is reported that plans are being considered for the installation of an electric generating plant to supply electricity for the new high school building.

Salisbury, N. C.—It is reported that the Southern Power Co. will soon start work on the construction of a steel tower electric transmission line from Salisbury to Statesville.

✚**Spray, N. C.**—The contract for the construction of a 3000-hp. electric power plant for the Thread Mills Co. has been awarded to the GALLIVAN BUILDING CO., Greenville, S. C. Noted July 15.

Columbia, S. C.—Plans are being considered for the construction of a power plant, capable of developing 600 hp., at the State Hospital for Insane.

Oxford, Miss.—At a recent election the citizens voted in favor of issuing $6500 in bonds, the proceeds of which will be used to improve the electric-light plant.

Cuyahoga Falls, Ohio—It is reported that bids are being received by Ernest McGeorge, Engr., 855 Leader News Bldg., for the construction of a one-story, 40x60-ft., brick and steel power house for the Falls Rubber Co. Noted June 24.

Painesville, Ohio—Bids will soon be received by H. Whitford Jones, Engr., 1302 Citizens Bldg., Cleveland, for furnishing engines, generators and condensers for the municipal-electric light plant. Noted July 8.

Coldwater, Mich.—Press reports state that the Board of Public Works contemplates the purchase of a new 350-generating unit consisting of a 350-kw. generator and engine. K. E. Norton is Supt.

✚**Springfield, Ill.**—The Secretary of State has awarded the contract for the boilers for the new power plant at the State Capitol to the SPRINGFIELD BOILER & MFG. CO., Springfield, at $40,000. The Legislature recently appropriated $140,000 for the plant. Noted May 20.

La Crosse, Wis.—According to press reports the Wisconsin Minnesota Light & Power Co. plans to expend about $210,000 for the construction of new buildings and equipment. J. N. Moncreiff is Mgr.

✚**Wilton Junction, Iowa**—(Official)—The ELECTRIC CONSTRUCTION & MACHINERY CO., Rock Island, Ill., at $4328, has been awarded the contract for the construction of additions to the power plant.

Hallock, Minn.—Press reports state that the Council is considering the proposition of issuing $15,000 in bonds, the proceeds of which will be used for the installation of an electric-lighting system.

✚**Canton, Kan.**—The CHALLENGE CO., 1404 West 11th St., Kansas City, Mo., has been awarded the contract for one 30-hp. and one 40-hp. St. Mary's oil engine, one 25-kw., 2300-volt generator and switchboard to be installed in the new power house of the municipal electric light plant. W. D. Moore is Supt., Light and Water Dept. Noted July 15.

Everest, Kan.—At a recent election the citizens voted in favor of the question of issuing $8000 in bonds, the proceeds of which will be used for installing an electric light system.

✚**Broken Bow, Neb.**—The contract for the construction of a municipal electric-light plant has been awarded to the ALAMO ENGINE & SUPPLY CO., Omaha, Neb., at $[illegible],000. R. M. Thompson is City Clk. Noted Apr. 1 and 22.

✚**Davenport, Neb.**—The ALAMO ENGINE & SUPPLY CO., Omaha, at $4606, has been awarded the contract for the installation of an electric-light plant. Noted June 17 and 24.

Hale, Mo.—Plans are being prepared and bids will soon be received for the construction of an electric-light plant. The estimated cost is $11,000. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, is Engr.

Keytesville, Mo.—The Henrici, Kent & Lowry Engineering Co., Reserve Bank Bldg., Kansas City, has been engaged by R. W. Cropper to prepare plans and take charge of the engineering work for the construction of an electric-light plant in Keytesville.

Springfield, Mo.—The Board of Regents of the Fourth District Normal School is considering plans for the construction of a power house to furnish electricity for all the school buildings. John J. Schneider is Pres.

Austin, Tex.—The Superintendent of Public Buildings and Grounds has announced that about $100,000 will be spent in installing a power and heating plant in the State Capitol. Noted Mar. 25.

Ft. Worth, Tex.—Press reports state that if the Lone Star Gas Co. is successful in securing a lease of 9600 acres of natural gas lands belonging to the Osage Indian reservation in Oklahoma it will develop the property on an extensive scale and will lay a pipe line from the field to Dallas and other towns.

Mexia, Tex.—It is reported that the People's Gas Co., recently organized with a captial stock of $50,000, will supply the towns of this section with natural gas. N. B. Robinson is interested.

Muskogee, Okla.—The Greater Muskogee Association has appointed a committee of five local citizens to work out a project for building a dam across the Grand River between Muskogee and Ft. Gibson to generate hydro-electric power. Surveys have been made and plans are in the hands of the committee. The estimated cost is $750,000.

Holbrook, Ariz.—T. M. Quebedeaux and K. H. Myers have applied to the Board of Supervisors for a franchise to construct and operate an electric-light plant.

Seattle, Wash.—It is reported that the Puget Sound Light & Power Co. will expend about $30,000 for the construction of a new system.

Burns, Ore.—A resolution has been passed by the City Council authorizing the sale of $10,000 in bonds, the proceeds of which will be used for the construction of an electric-light plant.

Lindsay, Calif.—The Tulare Power Co., Visalia, Calif., plans to construct additions and make improvements to its plant.

Placerville, Calif.—The Western States Gas & Electric Co. plans to enlarge its hydro-electric plant. The estimated cost is $75,000. H. R. Bennett is Mgr.

Visalia, Calif.—It is reported that the Mount Whitney Power & Electric Co. has awarded the contracts for the construction of its fifth hydro-electric generating plant on the Kahweah River in the Sequoia National Forest. The new station will have an output of 10,000-hp. Estimated cost, $750,000. Noted June 17.

✚**Montreal, Que.**—The Board of Commissioners has awarded the contract for the construction of an electric system for the filtration plant to G. M. GEST, Power Bldg., at $6275. Noted June 10.

Brockville, Ont.—G. K. Dewey is interested in a project to construct an electric power line through Elizabethtown Township. The estimated cost is $25,000.

The Narrows, Man.—It is reported that the Town Council is considering the installation of a light and power system. The estimated cost is $50,000. H. H. Elliott is Clk.

✚**Winnipeg, Man.**—The contract for furnishing one 150-kw. motor generator and exciter set to be installed in the generating station at Point du Bois has been awarded to VICKERS, LTD., Montreal, Que., at $5244. Noted May 20.

BRIDGES

✚**Boston, Mass.**—John S. Merrill, Chn., Bridge Comn., has awarded the contract for constructing the Boston approach to the Spring St. Bridge to CLARK & GOVE, Boston, at $15,850. Noted May 20 and July 8.

Worcester, Mass.—(Official)—The Samuel H. Pitcher Co., Engr., Worcester, Mass., has been retained by the city to prepare plans and supervise the construction of the Lake Quinsigamond Bridge. The structure will be of reinforced-concrete with six arches, one 120-ft., two 70-ft. and three 60-ft., total length 850 ft. and width 60 ft. The State Legislature recently passed a bill authorizing an appropriation of $250,000 for this purpose, the cost to be borne by the city, county, town of Shrewsbury and the Worcester Consolidated St. Ry. Noted Feb. 5, 1914 and Apr. 29, 1915.

✚**Berlin, Conn.**—JAMES E. GOODRICH, Glastonbury, has been awarded the contract by the Highway Commissioners for the construction of a concrete bridge across the Sebeth River.

★**Bridgeport, Conn.**—(Official)—Bids will be received by the Board of Contracts and Supplies, City Hall, until noon, Aug. 7, for the construction of a reinforced-concrete girder bridge, with a double leaf bascule channel span and all substructures and approaches at Stratford Ave. Greiner & Whitman, Fidelity Bldg., Baltimore, Md., is Consult. Engr.

Derby, Conn.—It is reported that the construction of a concrete bridge over the Naugatuck River at Division St.

to replace the present structure is contemplated by the cities of Derby and Ansonia. The estimated cost is $10,000. V. B. Clark is City Engr.

Binghamton, N. Y.—An election will soon be held to vote on the question of issuing $30,000 in bonds, the proceeds of which will be used for the construction of a bridge on Noyse Island and one across Pierce Creek. J. A. Giles is City Engr.

New York, N. Y.—(Borough of Bronx)—It is reported that the Public Service Commission, 154 Nassau St., will probably call for bids some time in September for the construction of a bridge across the Bronx River at Westchester Ave. F. J. H. Kracke is Comr. of Bridges. Noted June 17 and 24.

†Oswego, N. Y.—(Official)—Bids will be received by E. A. Howard, County Supt. of Highways, until 10 a.m., July 31, for the construction of a reinforced-concrete arch bridge over the Oswego River at Minetto, N. Y. The Concrete-Steel Engineering Co., Park Row Bldg., New York, is Engr. Noted Apr. 8.

†Utica, N. Y.—The Board of Contract and Supply has awarded the contract for the construction of a three-span reinforced-concrete bridge across the Mohawk River between Utica and Deerfield at North Genesee St. to WILLIAM F. COGLEY, Utica, at $59,158. Noted July 15.

New Brunswick, N. J.—(Official)—Bids were received by the Board of Chosen Freeholders of Middlesex County for the construction of a reinforced-concrete bridge over the South River on the South Amboy-New Brunswick Rd., as follows: A. Jelin, New Brunswick, $70,829; Long & Broadhurst, Hackensack, $87,706; McHarg-Barton Co., 171 Madison Ave., New York, N. Y., $76,683; General Contracting & Engineering Co., 29 Rector St., New York, N. Y., $66,714. A. B. Fox, Perth Amboy, is County Engr. Noted July 8.

Pine Brook, N. J.—(Official)—Bids were received by the Board of Chosen Freeholders of Morris and Essex Counties for rebuilding the bridge over the Passaic River at Pine Brook, as follows: Averill-Matthews Co., Clinton St., Newark, $39,860 (recommended for acceptance); Dover Boiler Works, $40,930; Foster Construction Co., $42,125; J. A. Hart & Co., $44,134; Long & Broadhurst, $44,887; Linde & Griffith, $42,210. Noted July 8.

Houtzdale, Penn.—(Official)—Bids will be received until July 29 by Charles Dickey, Secy. of Council, for the construction of a reinforced-concrete bridge 60 ft. long with a 20-ft. span. E. W. Hess, Clearfield, is Engr.

†Philadelphia, Penn.—(Official)—M. L. Cooke, Dir. Dept. of Pub. Ser. has awarded contracts for the construction of three bridges as follows: Bridge at Fifth St. over North Pennsylvania R.R. to the BROWN-KING CONSTRUCTION CO., Philadelphia, at $59,940; bridge on line of Third St. over Philadelphia, Newtown and New York R.R. to THOMAS F. REILLY, Philadelphia, at $24,000; bridge on line of Fisher Ave. over North Pennsylvania R.R. to THOMAS F. REILLY, Philadelphia, at $22,000. Noted July 1.

†Elkridge, Md.—O. E. Weller, Chn., State Rd. Comn., has awarded the contract for the construction of a bridge across the Patapsco River along the Baltimore and Washington Blvd. to A. J. BOYLE, Lanvale and Pulaski St., Baltimore, at $14,706. Noted June 10.

Norfolk, Va.—Plans are being prepared for the construction of viaducts at the eastern branch of the Elizabeth River at Lamberts Point for the Norfolk & Western Ry. The estimated cost is $50,000. J. E. Crawford is Ch. Engr.

Nottaway, Va.—(Official)—Bids will be received until noon, Aug. 2, at the Clerk's Office, Nottoway Court House, for the construction of a 203-ft. steel bridge with one 80-ft. steel span across the Nottoway River between Nottoway and Lunenburg Counties. G. P. Coleman, Richmond, Va., is State Highway Comr.

Portsmouth, Va.—It is reported that the Norfolk County Road Board will rebuild the Tanner's Creek Bridge on Jamestown Blvd. The estimated cost is $80,000.

Hinton, W. Va.—An election will be held in Summers County, Talcott District, Aug. 7 to vote on the question of issuing $30,000 in bonds, the proceeds of which will be used for the construction of bridges. J. M. Carden is Clk.

Snow Hill, N. C.—Press reports state that Greene County will construct a bridge across Contentnea Creek estimated to cost $20,000.

Greensboro, Ga.—It is reported that the citizens of Greene County defeated the bond issue of $50,000, the proceeds of which was to have been used for the construction and repair of bridges.

Springfield, Ga.—The Board of Commissioners of Effingham and Bulloch Counties will construct a bridge across the Ogeechee River. The estimated cost is $5000.

Bradentown, Fla.—An election will be held Aug. 10 to vote on the question of issuing $21,000 in bonds. The proceeds will be used for the construction of the unfinished contracts on the Ware Creek Bridge.

†Clearwater, Fla.—The LUTEN BRIDGE CO., York, Penn., at $8000, has been awarded the contract for the construction of a bridge across the creek at the entrance to the grounds of the Belleview Hotel.

Kissimmee, Fla.—Press reports state that the city contemplates issuing bonds for the construction of a bridge across the head of the lake.

St. Francisville, La.—An expenditure of $25,000 has been authorized by the West Feliciana Parish Police Jury for the construction of bridges over Thompson's Creek, Tunica Bayou, Big Bayou Sara Creek, Little Bayou Sara Creek and Alexander's Creek. The bridge over Thompson's Creek will be built jointly by West and East Feliciana Parishes.

Walkerford, Tenn.—(Maynardville post office)—Press reports state that a bridge will be constructed across the Clinch River at Walkerford by Union and Claiborne Counties. The estimated cost is $10,000.

Lexington, Ky.—It is reported that the citizens of Fayette County contemplate holding an election to vote on the question of issuing $300,000 in bonds, the proceeds of which will be used for the construction of a bridge across the Kentucky River between Fayette and Madison Counties. F. A. Bullock is County Judge. Noted July 8.

Cincinnati, Ohio—Bids will be received until noon, July 26, by Philip Fosdick, Dir. of Pub. Ser., for the reconstruction of the existing bridge on Kirby Rd.

†Cincinnati, Ohio—The contract for the construction of a bridge and culverts on Cameron Road has been awarded to J. J. FOLEY, Cleveland, at $4058. Noted June 10.

Dayton, Ohio—Plans for the construction of a railroad bridge across the Miami River at Dayton have been submitted by the Pennsylvania R.R. to the city authorities for their approval. The estimated cost is $260,000. J. C. Brand, Cincinnati, is Bridge Engr.

Mansfield, Ohio—Bids will be received until 10 a.m., July 28, by John A. Dalton, Audr., Clinton County, for the construction of the Orange St. Bridge. Charles L. Bushey is County Engr.

†Portsmouth, Ohio—(Official)—The contract for the construction of the Lawson Run Viaduct over the tracks of the Norfolk & Western Ry. has been awarded to L. E. STURM, Columbus, at $120,405. C. F. Losh, Portsmouth, is Asst. Engr. Noted June 24 and July 15.

Warren, Ohio—The construction of a bridge across the Mahoning River at McDonald is contemplated by the County Commissioners, the Carnegie Steel Co. and the railroad companies.

†Youngstown, Ohio—(Official)—The Board of Commissioners of Mahoning County has awarded the contract for repairing and rebuilding the pavement on the South Avenue Bridge, Youngstown, to COLUCCI BROS., Youngstown, at $5073. Noted July 1.

Crown Point, Ind.—Bids will be received by the County Commissioners until 1 p.m., Aug. 5, for the construction of a Scherzer rolling lift bridge and one concrete bridge. E. Simon is County Audr.

†Greensburg, Ind.—The CENTRAL STATES BRIDGE CO., Indianapolis, at $8933, has been awarded the contract for the superstructure of a bridge over Sugar Creek, and the contract for the substructure of a bridge over Little Blue River, Union Township, has been awarded to the CRAIG CONSTRUCTION CO., Greensburg, at $5899.

Indianapolis, Ind.—The only bid received for the construction of two additional spans for the West Washington St. Bridge over the White River was that of the National Concrete Co., at $110,000. Noted July 23, 1914 and July 8, 1915.

Lebanon, Ind.—Bids will be received about Aug. 15 by the Commissioners of Boone County for the construction of ten bridges, some of reinforced concrete and some of pony truss steel span. D. M. Clark is Audr.

†Monticello, Ind.—The County Commissioners have awarded the contract for the construction of six bridges to G. A. KELLENBURGER, Reynolds.

†Shelbyville, Ind.—The CENTRAL STATES BRIDGE CO., Indianapolis, at $5893, has been awarded the contract for the construction of the superstructure of the McConnell Bridge.

Detroit, Mich.—At an election held July 9 the citizens voted against the question of issuing $2,000,000 in bonds, the proceeds of which was to have been used for the construction of the proposed new Belle Isle Bridge. Noted May 13 and June 17.

Bishop Hill, Ill.—Bids will be received until 3 p.m., July 27, at the Town Hall for the construction of the Falk Bridge. The bridge will be of reinforced-concrete with a 12-ft. span and a 24-ft. roadway. James H. Reed, Cambridge, is County Supt. of Highways.

†Nunda, Ill.—(North Crystal Lake post office)—The contract for the construction of a bridge across the Fox River has been awarded to the JOHN J. O'HERON CONSTRUCTION CO., Chicago, at $16,000.

†Rockford, Ill.—The contract for the construction of a concrete bridge over Keith Creek at Kishwaukee St. has been awarded to G. HOLM, Rockford, at $8878. Noted May 13 and June 24.

Green Bay, Wis.—Bids will soon be received for the construction of a Strauss Bascule Bridge over the East River at Main St. The estimated cost is $55,000. A. Braun is City Engr. Noted Mar. 4.

†Mosinee, Wis.—The Village Board of Trustees has awarded the contract for the construction of a steel bridge, with concrete approaches, over the Wisconsin River to the WAUSAU IRON WORKS, Wausau, at $22,400.

Burlington, Iowa—At an election held June 30 the citizens voted in favor of issuing $200,000 in bonds, the proceeds of which will be used for the construction of a bridge across the Mississippi River at Burlington. Noted June 24.

†Austin, Minn.—(Official)—The contract for the construction of one 50-ft. and one 40-ft. through-girder bridge to be built in the towns of Windom and Red Rock has been awarded to H. F. GARBIST, Austin, at $2250 and $1970 respectively. Other bidders were: Illinois Steel Bridge Co., $5170; Hennepin Bridge Co., $5270; Iowa Bridge Co., $4665; McClure Contracting Co., $6294. Noted July 8.

Ellinwood, Kan.—Plans are being prepared and bids will be received about Sept. 1 for the construction of a reinforced-concrete bridge with nine spans, 44 ft. each with a 24-ft. roadway. W. S. Gearhart, State Agricultural College, Manhattan, is State Engr.

Girard, Kan.—(Official)—Bids will be received until noon, Aug. 11, by the Board of County Commissioners, for five steel or reinforced-concrete bridges. The work will include the construction of three new bridges and the removing of two old ones to other locations. The estimated cost of the steel bridges is $7475 and the reinforced-concrete $9717. Noted July 8.

Hutchinson, Kan.—Press reports state that the County Commissioners have decided to construct two concrete bridges across the Arkansas River, one at Hutchinson and one at Nickerson.

+Bismarck, N. D.—(Official)—The contract for the construction of seven reinforced-concrete culverts has been awarded to M. P. MOORE, Bismarck, at $11,200. P. E. Atkinson is County Engr. Noted July 1.

Ft. Yates, N. D.—Bids will be received until 2 p.m., Aug. 10, by the Commissioners of Sioux County for the construction of two steel span bridges. A. Colville is Audr.

+Jamestown, N. D.—(Official)—The contract for the construction of reinforced-concrete culverts has been awarded to JARDINE & ANDERSON, Fargo. Noted July 1.

+Marmath, N. D.—The contract for the construction of a bridge across the Little Missouri River at Marmath has been awarded to the SECURITY BRIDGE CO., at $11,243.

Bowling Green, Mo.—Bids will be received until July 28 by the Commissioners of Pike County for the construction of a 180-ft. bridge across Buffalo Creek. C. H. Harris is Highway Engr.

+Kansas City, Mo.—(Official)—The Commissioners of Jackson County have awarded the contract for the construction of a concrete viaduct over the tracks of the Chicago & Alton R.R. at 15th St. to the J. W. McMURRAY CONSTRUCTION CO., Kansas City, at $24,312. Allen C. Southern is County Engr. Noted July 8.

St. Joseph, Mo.—An election will be held Sept. 7 to vote on the question of issuing $8000 in bonds, the proceds of which will be used for the construction of a bridge at Second and Atchison St., also on a bond issue of $5000 for the repair of viaducts.

+Bryan, Tex.—The County Court has awarded the contract for the construction of a bridge over the Brazos River to AUSTIN BROS., Dallas, at $7500.

+Pawnee, Okla.—The County Commissioners have awarded the contract for the construction of the Cimmaron River Bridge to the MIDLAND BRIDGE CO., Kansas City, Mo., at $17,249. Other bidders were: Missouri Bridge & Iron Co., St. Louis, Mo., $17,690; Canton Bridge Co., Kansas City, Mo., $17,495.

Tulsa, Okla.—Press reports state that the contract for the construction of the bridge across the Arkansas River connecting Tulsa with West Tulsa will be awarded about Sept. 1. The estimated cost is $200,000. Noted June 24.

Warrenton, Ore.—It is reported that the Spokane, Portland & Seattle Ry. has applied to the War Department for a permit to reconstruct a draw bridge over Skipanon Creek. A. M. Lupfer, Portland, is Ch. Engr.

Alameda, Calif.—Plans for the construction of a bridge at Webster St., estimated to cost about $700,000, are being considered. Frank Bartlett is interested.

Berkeley, Calif.—Bids will soon be received by the City Council for the construction of a reinforced-concrete bridge 106 ft. long and 40 ft. wide across Codornices Creek. A. G. Briggs is City Clk.

+Hanford, Calif.—(Official)—The contract for the construction of a bridge across the Cross Creek has been awarded to S. G. SWARTT, Bakersfield, at $5284. Other bidders were: Walker Bros., $6269; Johnson Bros., $5637; Trewhitt-Shields Co., $5800. E. F. Pickerill is County Clk. Noted July 1.

+Meriden, Calif.—The Northern Electric Co. has awarded the contract for the reconstruction of the bridge across the Sacramento River to the MISSOURI VALLEY BRIDGE. CO., Leavenworth, Kan. The estimated cost is $80,000. Noted July 1.

+Orange, Calif.—(Official)—The HOLLAND CONSTRUCTION CO., San Diego, at $7994, has been awarded the contract for the construction of a reinforced-concrete bridge across Santiago Creek on East Chapman Ave. Noted June 10.

Red Bluff, Calif.—It is reported that the Board of Supervisors of Tehama County has voted to readvertise for bids for the construction of three bridges, a 2200-ft. bridge across Sand Slough, a 450-ft. bridge across Samson Slough and a 600-ft. bridge across Payne Creek. Noted June 24 and July 15.

San Jose, Calif.—Bids will be received until 11 a.m., Aug. 2, by the Board of Supervisors of Santa Clara County for the construction of a reinforced-concrete bridge over Guadalupe Creek. Harry A. Pfister is Clk. of Bd.

+San Luis Obispo, Calif.—The County Commissioners have awarded the contract for the construction of the Miles Station Bridge to GUTLEBEN BROS., New Call Bldg., San Francisco, at $21,700.

+Darling, Ont.—The Canadian Pacific Ry. has awarded the contract for the construction of a bridge to the FOUNDATION CO., Montreal, Que. The estimated cost is $50,000.

WATER SUPPLY—IRRIGATION

Belchertown, Mass.—At a special election held July 12 the citizens voted against issuing $40,000 in bonds, the proceeds of which was to have been used for the construction of a water system. Noted May 20.

★Hartford, Conn.—(Official)—Plans are on file with "Engineering News" for the construction of the Richards Corner dam. Noted July 15.

Centerville, N. Y.—At a recent election the citizens voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for the construction of a water system. C. H. Smith, Times-Press Bldg., Middletown, is Engr. and I. D. Wolf is Village Pres.

★Ilion, N. Y.—(Official)—Bids will be received until 9 a.m., Aug. 3, by the Board of Water Commissioners for laying 3½ miles of c.-i. pipe, constructing a concrete diverting dam, intake chamber and gate house. George O. Rasbach is Clk.

★New York, N. Y.—(Official)—Bids will be received until 11 a.m., Aug. 3, by the Board of Water Supply, Municipal Bldg., Manhattan, for making six borings through rock at the East shaft of the Hudson siphon under Contract 165.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 2 p.m., July 23, by William Williams, Comr. of Water Supply, Gas and Electricity, for laying water mains in various streets.

+New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 12 by the Department of Water, Gas & Electricity for making alterations and improvements at the New Utrecht pumping station (a) for mason, steel roof and carpenter work, (b) plumbing and gas fitting and (c) steam-heating work: J. J. HEARN CONSTRUCTION CO., 6 West 46th St., New York, at $10,362 (awarded contract for (a)); Smith & Triest, 65 Lawrence Ave., Brooklyn, (c) $1044; Dolan Watnik, 146 Dumont Ave., Brooklyn, (b) $1190. Noted July 1.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 14 by the Department of Water, Gas & Electricity for laying water mains in several streets as follows: Beaver Engineering Co., $48,176; L. D. Gregory, $[illegible],201; Murphy Bros., $51,327; Knight & DiMicco, $53,682; Brady-Oltarsch Co., $47,934; James McAvoy, $44,985; Melrose Construction Co., $51,337.

+Oswego, N. Y.—Contracts have been awarded to M. B. CRAWFORD & SON, Oswego, at $16,189, for furnishing c.-i. pipe and valves; RENSSELAER VALVE CO., Troy, at $1580, for valves and hydrants; CHARLES MILLER & SONS CO., Utica, at $1680, for pig lead and to VINCENT TESCIERO, Oswego, at $4832, for trenching. Noted June 24.

★Watervliet, N. Y.—(Official)—Bids will be received until 2:30 p.m., Aug. 16, by the Board of Water Commissioners, No. 1555 Broadway, Watervliet, for furnishing materials and constructing a complete municipal water system. Plans are on file with "Engineering News." Walter G. Clute is Pres., Bd. of Water Comn. Noted Apr. 22, 1914.

East Orange, N. J.—Bids will be received until 8 p.m., Aug. 9, by the City Council for the purchase of $125,000 in bonds, the proceeds of which will be used for constructing a water distributing system. L. E. Rowley is City Clk.

Gloucester, N. J.—All bids received June 25 for extensions to the water system have been rejected. J. F. Lenny is City Clk., and A. Blatchley, Drexel Bldg., Philadelphia, Penn., is Engr. Noted Apr. 15 and June 24.

Brownsville, Penn.—Plans have been prepared and submitted to the State Board of Health for the construction of a filtration plant in South Brownsville.

Cassandra, Penn.—According to press reports the citizens voted $8000 in bonds, the proceeds of which will be used for the construction of a water system.

★Mifflinburg, Penn.—(Official)—Bids will be received until 8 p.m., July 22, by the Borough Council for constructing a 500,000-gal. concrete reservoir. Alexander Potter, 50 Church St., New York, N. Y., is Consult. Engr. Noted May 20 and 27.

Ringtown, Penn.—According to press reports the Borough Council contemplates constructing a water system.

Seaford, Del.—According to press reports bonds for $20,000 have been voted by the citizens, the proceeds of which will be used for the construction of water and sewer systems.

+Crownsville, Md.—(Waterbury post office)—The contract has been awarded by the Crownsville State Hospital to RIGGS, DISTLER & STRINGER, 25 Light St., Baltimore, at about $8000, for installing a water system.

+St. Marys, W. Va.—(Official)—The contract has been awarded to FOREMAN & PUTNAM, Marietta, Ohio, at $6894, for constructing a concrete reservoir. Noted June 10.

Sheperdstown, W. Va.—Press reports state that a company is being formed to construct a water system in Sheperdstown.

★Warrenton, N. C.—(Official)—Bids will be received until 3 p.m., Aug. 10, by the Board of Commissioners and the Mayor for constructing water and sewer systems. Gilbert C. White, Charlotte, is Engr. Noted June 3 and 17.

Wilson, N. C.—Bonds for $400,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system and gas plant. Noted Feb. 25 and June 3.

Bamberg, S. C.—The city contemplates constructing a water system. The estimated cost is $10,000.

Cartersville, Ga.—(Official)—An election will be held Aug. 14 to vote on the question of issuing $5000 in bonds, the proceeds of which will be used for the construction of water mains. W. W. Danniel is City Engr.

Bradentown, Fla.—The election to vote on the question of issuing $10,000 in bonds for the construction of a well for the water system has been postponed until Aug. 10. Noted June 24.

+Pensacola, Fla.—The contract has been awarded to F. M. BLOUNT CONSTRUCTION CO., Pensacola, at $12,842, for constructing a pumping station for the Water Department. Noted June 24.

Neshoba, Miss.—Bonds for $30,000 have been voted by the citizens, according to press reports, the proceeds of which will be used for the construction of water and sewer systems.

Amite, La.—The city contemplates constructing a water system. An election will probably be held to vote bonds. X. A. Kramer, Magnolia, Miss., is Engr.

Gretna, La.—Bonds for $50,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system to connect with the municipal water system in Algiers. Noted July 15.

Kaplan, La.—Bonds have been voted by the citizens, the proceeds of which will be used for the improvement of the water system.

Athens, Ohio—Plans are being prepared by Burgess & Long, Columbus, for the construction of a water system. The estimated cost is $40,000. Noted Dec. 4, 1913.

Attica, Ohio—At an election held July 12 the citizens voted in favor of issuing bonds for $10,000, the proceeds of which will be used for the installation of a filtration plant. Noted June 10 and 24.

★Cambridge, Ohio—(Official)—Bids will be received until noon, Aug. 5, by T. D. L. Lee, Dir. of Pub. Ser., for making improvements to the municipal water system. The W. J. Sherman Co., Toledo, is Engr.

Cincinnati, Ohio—Bids will be received until noon, July 26, by Edward P. Durr, Secy., Dept. of Pub. Safety, for constructing a high pressure fire system in Central Ave. and Sixth St.

East Youngstown, Ohio—An election will be held Aug. 11 to vote on the question of issuing $165,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Feb. 25.

Glendale, Ohio—At the November election the citizens will vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the improvement of the water system.

Marietta, Ohio—(Official)—Chester & Fleming, Pittsburgh, Penn., has been retained by J. W. Frye, Dir. of Pub. Service, to prepare a report on the different locations for a high level reservoir and the fitness of the present pumping machinery relative to its ability to deliver into the reservoir. Noted May 20.

Miamisburg, Ohio—(Official)—Bids will be received until noon, July 27, by the Trustees of Public Affairs for laying water mains.

†Sandusky, Ohio—The contract has been awarded to the MASSILLON IRON & STEEL CO., Massillon, for furnishing c.-i. pipe and specials.

West Park, Ohio—(Official)—Bids will be received until noon, Aug. 17, by Frederick Feuchter, Clk., for the purchase of $10,000 in bonds, the proceeds of which will be used for the extension and improvement of the water system.

Ladoga, Ind.—The city plans to install a municipal water system.

Miller, Ind.—The Town Board plans to issue $15,000 in bonds, the proceeds of which will be used for the construction of a water system. W. J. Fulton, Gary, is Engr.

Vanburen, Ind.—Bonds for $12,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water-works.

Versailles, Ind.—Bonds have been voted by the citizens, the proceeds of which will be used for the construction of a water system.

Menominee, Mich.—(Official)—The city has retained the W. J. Sherman Co., The Nasby, Toledo, Ohio, to prepare detailed estimates of the cost of the proposed municipal water system. Noted Dec. 24.

Frankfort, Ill.—Bids will be received until 7:30 p.m., July 29, by Max F. Haas, Pres., for constructing a water tank, tower and connections. The estimated cost is $5065.

Monticello, Ill.—Bids will be received until 10 a.m., July 28, by the City Council for making improvements to the water system. Noted Apr. 1.

Ellsworth, Wis.—Bids will be received until July 29 by C. B. Wood, Village Clk., for the construction of a water system. J. F. Druar, St. Paul, Minn., is Engr. The estimated cost is $7500. Noted June 10.

†Fond du Lac, Wis.—(Official)—The contract has been awarded to GEORGE A. MALLORY & CO., Kewanee, Ill., at $3190, for laying water mains. Noted June 24.

†Kohler, Wis.—The contract has been awarded to E. M. SCHREFLOW, Elgin, Ill., at $10,633, for constructing water and sewer systems. Noted June 10.

West Allis, Wis.—Bids will be received until noon, Aug. 6, by the Acting Board of Public Works for laying water mains and installing hydrants in seven streets. George Mahoney is City Clk. Noted Mar. 11.

Ogden, Iowa—Bids will be received until 8 p.m., July 30, by the Town Council for making extensions to the water system. About 18,006 ft. of 4-in. water mains will be laid.

Riverside, Iowa—(Official)—Bids will be received until Aug. 5 for constructing a water system we have been advised. Charles P. Chase, Clinton, is Engr. Noted July 15.

Solomon, Kan.—At a recent election the citizens voted against the question of issuing bonds, the proceeds of which was to have been used for the installation of a water system. G. M. Spaulding is City Clk. Noted May 6.

Ord, Neb.—Bids will be received until Aug. 13 by J. C. North, Mayor, and O. P. Conwell, City Clk., for the construction of a water-works. Bruce, Standeven & Boynton, Bee Bldg., Omaha, is Engr.

Anamoose, N. D.—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. Noted June 10 and 24.

Wibaux, Mont.—Bids will be received until July 26, according to press reports, by the Town Clk, for constructing a water system. The estimated cost is $27,000. C. H. Green, Spokane, Wash., is Engr. Noted June 6 and July 1.

Canton, Mo.—The city plans to sell $14,000 in bonds, the proceeds of which will be used for the construction of a water system. L. H. Condit is Chn. Bd. of Pub. Wks.

Bixby, Okla.—An election will be held to vote on the question of issuing bonds for $26,000, the proceeds of which will be used for the construction of a water system.

St. Maries, Idaho—(Official)—An election will be held July 27 to vote on the question of issuing $37,000 in bonds, the proceeds of which will be used for the improvement of the water system. Charles R. Schulte is City Clk. Noted July 1.

Brigham City, Utah—Plans have been prepared for the construction of an irrigation system for the bench lands near Brigham City. A. K. Chatfield, Salt Lake City, is interested. Noted Apr. 29.

†Colfax, Wash.—The contract has been awarded to the UNITED STATES CAST IRON PIPE CO., Portland, Ore., at $54,386, for furnishing 2000 ft. of c.-i. pipe. Noted June 3.

Everett, Wash.—(Official)—An election will be held Aug. 24 to vote on the question of issuing $1,100,000 in bonds and $650,000 in bonds; the proceeds of the former will be used for the purchase of the present water system and the latter for the construction of a new water supply. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., is Engr.

Pateros, Wash.—(Official)—Bids will be received until July 30 by the Town for constructing a water system. W. H. Noble is Engr. The estimated cost is $10,000.

Burns, Ore.—Bonds for $60,000 have been authorized by the City Council, the proceeds of which will be used for the construction of a water system. H. C. Levins is Mayor.

West Lima, Ore.—Bids will be received until July 29 by L. L. Porter, Secy., Water Comn., for constructing a water system. The work includes laying 12,000 ft. of 10-in. supply main, 30,000 ft. of 4-in. and 6-in. mains and a 2,000,000-gal. reservoir and standpipe.

†Modesto, Calif.—The contract for the construction of a concrete lined flume at Gasburg Gulch has been awarded by the Modesto Irrigation District to the TIBBITTS PACIFIC CO., San Francisco, at $54,950.

Moorpark, Calif.—The Moorpark Mutual Water Co. will issue bonds for $25,000, the proceeds of which will be used for the improvement and extension of the water system.

Guelph, Ont.—The City Council plans to lay water mains between Victoria Bridge and the pumping station. G. B. Ryan is Chn.

Canora, Sask.—The installation of a water system at an estimated cost of $17,700, is under consideration by the Council. Chipman & Power, Mail Bldg., Toronto, Ont., is Engr.

Revelstoke, B. C.—Plans are being prepared by the Riverside Water Co. for the installation of a new water-works. The estimated cost is $20,000.

Vancouver, B. C.—At a recent election the citizens voted against the question of issuing $230,000 in bonds, the proceeds of which was to have been used for a water system. Noted Mar. 5.

Vernon, B. C.—The construction of an auxiliary pumping plant for the water system is under consideration. D. G. Tate is Clk.

SEWERS

Boston, Mass.—Bids will be received until noon, July 26, by Edward F. Murphy, Comr. of Pub. Wks., for the construction of pipe sewers and drains in Dumas, Cygnet, Ascot and Lincoln St. and in Commonwealth Ave., Brighton.

Boston, Mass.—Bids will be received until 1:30 p.m., July 28, by the Metropolitan Water and Sewerage Board for the construction of sewers in Sections Nos. 105 and 106 of the high level sewer, South Metropolitan System, in Needham and Wellesley.

Danbury, Conn.—The only bid received for the construction of sewers in Crane, Osborne, Tamarack St. and in Ninth Ave. was that of Luke E. Sweeney, Danbury, at $11,839. Noted June 10.

†New Haven, Conn.—(Official)—The contract for the construction of the Whalley Ave. sewer has been awarded to DWYER & MANNIX, New Haven, at $81,002. Other bids were: Charles W. Blakesler & Sons, New Haven, $122,310; Thomas F. Maher, New Haven, $93,955; Antonio Lambo, Waterbury, $99,955; O'Neil Bros., Hartford, $96,770; Leonardo Suzio, Meriden, $87,054. Noted July 15.

†Binghamton, N. Y.—The contract for the construction of storm and sanitary sewers in West End and Cleveland Ave. and in Division St. has been awarded to GEORGE SERAFINI, Binghamton, at $4065.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received July 1 by Douglas Mathewson, Borough Pres., for the construction of sewers and appurtenances in Randall, Metcalf and Bronx River Ave., as follows: Anita Construction Co., $91,848; Rodgers & Haggerty, $80,805; H. E. Fox, $120,127; Melrose Construction Co., $109,294; Joseph L. Sigretto, $81,567; Hanover Contracting Co., $88,723; Briggs & McLaughlin, $95,308; Lawrence Contracting Co., $88,342; D. J. Duffy, $98,141; F. B. Smith, $99,454; Kingsbridge Contracting Co., $97,096; U. S. Drainage & Irrigation Co., $63,931; J. S. F. Frazer and V. D. Burchard, $80,757.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received July 1 by Douglas Mathewson, Borough Pres., for the construction of sewers and appurtenances as follows: (a) in Raymond, Olmstead and Benedict Ave., (b) in Herschell St. and Butler Plane; S. Amanna & Sullivan, (a) $11,866, (b) $4308; Marone & Burchard, (a) $12,294, (b) $5000; A. Mancini, (a) $14,370, (b) $5770; Briggs & McLaughlin, (a) $12,392, (b) $5997; Delson Contracting Co., (a) $11,628; Anita Construction Co., (a) $10,689, (b) $7316; Gasperini & De Blasio, (a) $10,471, (b) $5174; Estates Contracting Co., (a) $10,869; D. J. Donlin, (a) $11,652, (b) $4552; Joseph L. Sigretto, (a) $12,014, (b) $5107; Hanover Contracting Co., (a) $11,854; Dragonetti Bros., (b) $5000; M. DiMenna, (b) $4994; Charles E. Farrell, (b) $4622; DeMinna & DeBalsio, (b) $4585; Burnside Contracting Co., (b) $4592; Knight & DiMissa, (b) $5000.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 14 by L. H. Pounds, Borough Pres., for installing complete the mechanical plant at the 26th Ward Disposal Works at Hendrix St. and Vandalia Ave., as follows: F. J. Eisinger, $4873; Adams Britz Co., $4971; Stewart & Miller, $4747; North Eastern Construction Co., $4698; Reiss & O'Donovan, $5880.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received July 15 by Marcus M. Marks, Borough Pres., for the alteration and improvement to the sewer in 32nd St. from Broadway to Fifth Ave. from P. Reilly, $13,361; D. J. Donlin, $9894; J. J. Haldewen, $13,896; Lawrence Contracting Co., $17,687; Fitzgerald & Brennen, $20,347; P. J. Kearns, $7198; Kingsbridge Contracting Co., $9562.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., July 28, by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Cedar, Briggs (Park St.), Myrtle, Lantic Ave. and in the South Side of Atlantic Ave., Fourth Ward.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids were received July 13 for the construction of temporary sanitary sewers in Kissel, Castleton, Henderson Ave., and in Brighton Blvd. from J. E. Donovan, at $26,609, and Joseph Johnson Sons, at $20,907.

✚Perrysburg, N. Y.—The contract for the construction of a sewage-disposal plant has been awarded to GEORGE W. MOORE, Buffalo, at $5800. Noted June 10.

✚Rochester, N. Y.—The Board of Contract and Supplies has awarded the contract for the construction of sewers in Thurston, Gardiner and West St. to FRANK LACHINSA, at $17,363. Noted Apr. 15.

✚Syracuse, N. Y.—(Official)—Bids were received July 12 for the construction of the Huntley Sewer System No. 2 as follows: (a) reinforced concrete, (b) brick, (c) monolithic concrete, J. C. SCHRADE, Brooklyn, (a) $82,731 (awarded contract), (b) $117,657, (c) $104,714; Mondo Construction Co., Syracuse, (a) $84,305; Bonn & Marnell, Syracuse, (a) $85,516; Frank George, White Plains, (a) $85,921, (b) $101,802, (c) $97,245; Samuel Bonn, Syracuse, (a) $86,957; F. S. Sposato, Syracuse, (a) $92,100, (b) $105,988, (c) 103,327; Grant, Smith & Co. & Locher, Rome, (a) $92,165, (b) $118,651, (c) $103,276; Hookway Construction Co., Syracuse, (a) $95,152; Charles Ippolito, Orange, N. J., (a) $126,743, (b) $166,335, (c) $158,476. W. Thomas Wooley is City Engr. Noted July 1.

✚Avalon, N. J.—(Official)—The contract for the construction of approximately 14,000 ft. of 12- to 20-in. pipe sewers has been awarded to SUTTON & CORSON, Ocean City. Noted July 1.

✚Edgewater, N. J.—The contract for the construction of sewer outlet No. 10 has been awarded to EDWARD ENGLISH, Edgewater, at $36,678. Noted July 15.

Hackensack, N. J.—Bids will be received until 8:30 p.m., July 26, by the Borough Council for the construction of a sanitary sewer system under two contracts, Contract A, constructing approximately 11 miles of 8- to 20-in. lateral and trunk sewers, Contract B, constructing a sewage-disposal plant consisting of a circular two-story settling tank, sludge beds and cast iron outlet to the river. Noted Feb. 4.

Newark, N. J.—Bids will be received July 29 by the city for the construction of the Bound Creek and Frelinghuysen Ave. sewer. M. R. Sherrerd is Engr.

✚Orange, N. J.—The Orange City Commission has awarded the contract for the construction of storm sewers in Main St. to the FUSCO CONSTRUCTION CO., at $4100.

✚Philadelphia, Penn.—The contract for the enlargement and the relocation of the sewers in Buttonwood St. in connection with the Broad St. Subway work has been awarded to JOHN McMENANY, at $17,500. Noted July 1.

Govans, Md.—Ezra B. Whitman, Consult. Engr., 1319 Fidelity Bldg., Baltimore, has been retained by the Baltimore County Commissioners to prepare plans for the construction of a sewer system for Govans.

Huntington, W. Va.—Plans are being prepared by John Sanborn, City Engr., for the construction of sewers in the First and Second Wards. The estimated cost is $8000.

Warrenton, N. C.—Bids will be received until Aug. 10 by the city for the construction of approximately 7½ miles of 8- to 15-in. pipe sewers. J. W. Allen is Mayor and Gilbert C. White, Charlotte, is Engr. Noted June 3.

Hamburg, S. C.—(North Augusta post office)—The city contemplates holding an election to vote on the question of issuing $30,000 in bonds. The proceeds will be used for the construction of a sewer system.

Catersville, Ga.—(Official)—An election will be held Aug. 14 instead of July 17 as was noted in the issue of July 1 to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a sewer system. W. W. Daniel is City Engr. Noted July 1.

Greensboro, Ga.—The citizens of Greene County defeated a bond issue of $50,000, the proceeds of which was to have been used for the construction of sewers and for repairing bridges. Noted June 17.

Savannah, Ga.—An election will be held Oct. 12 to vote on the question of issuing $400,000 in bonds. The proceeds will be used for the construction of a storm water sewer system. E. R. Conant is Engr. Noted July 1.

St. Petersburg, Fla.—The City Commissioners contemplate issuing $146,000 in bonds. Part of the proceeds will be used for the construction of sewers.

Gulfport, Miss.—At a recent election the citizens defeated the question of issuing $5000 in bonds. The proceeds were to have been used for the construction of a sanitary sewer system. Noted May 20.

Neshoba, Miss.—See item under "Water Supply-Irrigation."

Amite, La.—Xavier A. Kramer, Engr., Magnolia, Miss., is preparing a report on the construction of a sewer system for Amite.

Cleveland, Tenn.—It is reported that bonds for $75,000 have been sold. The proceeds will be used for the construction of a sewer system. Noted June 24.

✚Memphis, Tenn.—The contract for the construction of the Bayou Gayaso outfall sewer from the North Memphis pumping station to the mouth of the Wolf River has been awarded to the KOEHLER BROS. FOWLER CONSTRUCTION CO., Memphis, at $23,682.

✚Brewster, Ohio—The contract for sewer construction has been awarded to the ROSS-COOK ENGINEERING CO., Akron, at $9267. Noted July 1.

Cheviot, Ohio—(Cincinnati post-office)—Bids will be received until noon, July 28, by Albert J. Reusing, Clk., for the construction of a trunk drain in Powells Track and in the Schlenker and Reubel property.

Cincinnati, Ohio—Bids will be received until noon, July 27, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in Observatory Pl., Seegar and Waverly Ave. and in Streng St.

Cincinnati, Ohio—Bids will be received until noon, July 30, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in Athens, Dunlap, Lossing, Randolph St. and in Broadwell, Crescent, Missouri and Duluth Ave.

Cincinnati, Ohio—Henkel & Sullivan submitted [illegible] at $11,212 for the construction of sewers in Seitz, Dor[illegible] and Goethe St. from Sycamore to Alexander St. Noted J[illegible] 1.

Cincinnati, Ohio—Bids were received July 12 by [illegible] Director of Public Service for the construction of the [illegible]son-ville District Sewer, Contract No. 3 as follows: (a) brick, (b) concrete, (c) reinforced-concrete, (d) segmental b[illegible], (e) vitrified pipe and miscellaneous quantities, Engineer's Estimate, (a) $13,960, (b) $13,960, (c) $13,960, (d) $13,960, [illegible]854,-988; Thomas P. Strack, Cincinnati, (c) $17,661, (d) $17,[illegible], (e) $41,894; Thomas Maloney, Cincinnati, (a) $14,320, (d) [illegible]4,320, (e) $49,264; Welling & Franz, Cincinnati, (d) $13,450, [illegible]851,-224; Thurber & Browning, Cincinnati, (a) $15,326, (b) [illegible]316, (d) $13,641, (e) $50,251. Noted July 8.

✚Lowellville, Ohio—The contract has been awarded to the TURNER-OLSEN CONTRACTING CO., Youngstown, at $6346 for the construction of sewers in District No. 2. Noted June 24.

✚Indianapolis, Ind.—The contract for the construction of sewers in various streets has been awarded to the COLUMBIA CONSTRUCTION CO.

Indianapolis, Ind.—The lowest bid received by the Board of Public Works for the construction of the overflow sewer in Maple Rd. was that of the Marion County Construction Co., Indianapolis, at $78,210.

Detroit, Mich.—The Supreme Court has approved a bond issue of $503,000, the proceeds of which will be used for the construction of sewers.

Aurora, Ill.—The City Council contemplates the construction of a sewer in the Arlington Heights addition estimated to cost $13,000. Myron Tarble is City Engr.

✚Berwyn, Ill.—The contract for the construction of sewers in Ogden Ave. and other streets west of Oak Park Ave. has been awarded to CHARLES M. PORTER CO., Chicago, at $18,685. Noted May 13.

✚Cicero, Ill.—The contract has been awarded to CHARLES M. PORTER CO., Chicago, at $4461, for the construction of sewers in West 15th St., South 61st and South 62nd Ave. and other streets. Noted July 8.

✚Gibson City, Ill.—The contract for sewer construction has been awarded to HENRY REES, Quincy, at $33,422.

Glencoe, Ill.—Bids will be received until 8 p.m., Aug. 3 for the construction of a sanitary sewer system. The estimated cost is $5000. Windes & Marsh, Winnetka, is Engr.

Joliet, Ill.—Bids will be received about Aug. 1 for the construction of the Third Ward sewer system. The estimated cost is $69,470. C. O'Callahan is City Engr. Noted Apr. 8.

✚Peoria, Ill.—(Official)—The contract for the construction of the South End Sewer, East Section, has been awarded to E. R. HARDING CO., Racine, at $202,824. Other bids were: J. B. Sheets, Pittsburgh, Penn., $208,353; Foulkes Construction Co., Terre Haute, Ind., $217,023; Cedar Rapids Construction Co., Cedar Rapids, Iowa, $221,983; Public Service Construction Co., Omaha, Neb., $251,332. Noted July 1.

✚Algoma, Wis.—The contract has been awarded to GRAY-ROBINSON CO., Manitowoc, at $6947, for the construction of a sewer in Dodge St.

Beaver Dam, Wis.—Bids will be received until 7:30 p.m., Aug. 2, by the Board of Public Works for the construction of sewers in various streets.

Green Bay, Wis.—Bids will be received until 10 a.m., July 27, by L. Findeisen for the construction of sewers in various streets.

✚Kohler, Wis.—(Official)—The contract for the construction of sanitary sewer and storm drainage systems has been awarded to E. M. SCHEFLOW, Elgin, Ill., at $10,633. Noted June 24.

✚Milwaukee, Wis.—The Department of Public Works has awarded contracts for sanitary sewer construction to GEORGE ZIMMERMAN, Seventh Ave. sewer, $7133, Manitoba Ave. sewer, $2115, First Ave. sewer, $13,833, Pennsylvania Ave. sewer, $2021, and Ninth Ave. sewer, $1735.

✚Watertown, Wis.—(Official)—The contract for the construction of a sewer in Nashotah St. and through private property to the river has been awarded to E. L. BARTLETT, Watertown, at $6550. Noted July 15.

West Allis, Wis.—Bids will be received until noon, Aug. 6, by the Acting Department of Public Works for the construction of sewers in various streets. E. G. Orbert is City Engr.

Clinton, Iowa—Bids will be received early in Aug. for the construction of a sewer system in District No. 3. J. G. Thorne is City Engr.

Ogden, Iowa—(Official)—Bids will be received about Aug. 24 by D. Sickler, Mayor, for the construction of a sewer system and a sewage-disposal plant. The estimated cost is $45,000. R. B. Reasoner, Perry, is Engr.-in-Charge. Noted July 8.

Primghar, Iowa—Plans are being prepared for the construction of a sewer system. Bruce, Standeven & Boynton, 430 Bee Bldg., Omaha, Neb., is Engr.

Breckenridge, Minn.—(Official)—At a recent election the citizens defeated the question of issuing $18,000 in bonds. The proceeds were to be used for the construction of a sewer system. Noted July 15.

✚Rochester, Minn.—(Official)—The contract has been awarded to W. C. FRASER, St. Paul, at $5728, for the construction of sewers Noted July 8.

Sandstone, Minn.—Bids will be received until July 26 by C. Rudsuhle, Village Recdr., for the construction of approximately 9025 ft. of 8- and 6-in. sewers.

St. Paul, Minn.—Bids will be received until 10:30 a.m., July 26, by August Hohenstein, Pur. Agt., for the construction of storm and sanitary sewers in various streets to be included in part of the Snelling-Como sewer system. Noted June 3.

Manhattan, Kan.—Plans are being prepared for the construction sewers in Districts Nos. 3, 4 and 5, consisting of approximately six miles of sewers. F. Walters is City Engr. and C. F. Gist is City Clk.

Mitchell, S. D.—Bids will be received until Aug. 2 by Thomas Eastcott, City Audr., for the construction of sewers in various streets.

✚Choteau, Mont.—(Official)—The contract for the construction of sanitary sewers has been awarded to the TWO MIRACLE CONCRETE CORPORATION, Kalispell, at $10,824. Other bids were: F. E. Evans, Great Falls, $11,501; G. H. Nash & Co., Missoula, $10,830; Geo. H. Kemper, Minot, N. D., $10,832; Wilson & Smith, Great Falls, $11,819; Lindstrom & Oren, Billings, $12,936. Noted July 8.

Wibaux, Mont.—Bids will be received until July 26 for the construction of a sewer system. The estimated cost is $13,000. R. Quamme is City Clk. Noted June 3.

St. Joseph, Mo.—An election will be held Sept. 7 to vote on the question of issuing $650,000 in bonds. The proceeds will be used for the extension of the sewer system. Noted July 15.

Springfield, Mo.—An election will be held Aug. 2 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of sewers and repairing the old sewers. Noted June 17.

Austin, Tex.—The City Commission has appropriated $5250 for the purchase of a site for the construction of a sewage-disposal plant estimated to cost $75,000.

Beeville, Tex.—At a recent election the citizens voted to issue $15,000 in bonds. The proceeds will be used for the construction of approximately 26,000 ft. of sewer extensions. Noted June 24.

San Antonio, Tex.—An election will soon be held to vote on the question of issuing $500,000 in bonds. The proceeds will be used for the construction of storm and sanitary sewers systems.

West, Tex.—At a recent election the citizens voted to issue $12,000 in bonds. The proceeds will be used for the construction of a sewer system. Noted June 24.

Muskogee, Okla.—The City Commissioners contemplate the construction of the North Mill St. sewer. The estimated cost is $23,000.

Sand Springs, Okla.—The city contemplates the construction of approximately 1½ miles of main sewers.

Salt Lake City, Utah—(Official)—Bids will be received until Aug. 4 by Karl A. Scheid, City Recdr., for the construction of the main trunk sewer. The estimated cost is $300,000. S. Q. Cannon is City Engr. Noted July 8.

Port Angeles, Wash.—All bids received for the construction of the Francis St. sewer have been rejected. New bids will be received.

Burns, Ore.—The City Council has authorized a bond issue of $40,000, the proceeds of which will be used for the construction of a sewer system. H. C. Levins is Mayor.

Portland, Ore.—The City Council contemplates the construction of an intercepting trunk sewer in South Portland. The estimated cost is $16,000.

Compton, Calif.—At a recent election the citizens voted to issue $70,000 in bonds. The proceeds will be used for the construction of a municipal sewer system. Olmsted & Gillen, Hollingsworth Bldg., Los Angeles, is Consult. Engr.

Los Angeles, Calif.—The city contemplates the construction of sewers in various streets.

Sacramento, Calif.—Bonds for $106,000 have been sold, part of the proceeds of which will be used for the construction of sewers.

San Bruno, Calif.—See item under "Streets and Roads."

San Francisco, Calif.—The Board of City Supervisors have appropriated $65,000 for the construction of sewers in Fifth St. Noted June 3.

San Francisco, Calif.—A. L. Meyerstein contemplates the construction of a concrete sewer large enough to be a part of the main outlet for storm sewers through his residence north of Portola Drive. The estimated cost is $16,000.

✚Stockton, Calif.—The contract for the construction of lateral and branch sewers in Sonoma, Mendocino, Mariposa and Monterey St. has been awarded to W. J. TOBIN, Oakland, at $5587. Noted Apr. 29.

Berlin, Ont.—A tentative report has been submitted by Willis Chipman, Toronto, for the construction of a new septic tank, extension of a sewage-disposal plant and additonal filtration beds. The estimated cost is $55,000.

The Narrows, Man.—The city contemplates the construction of sewer and water works systems. The estimated cost is $80,000. H. H. Elliott is Clk.

GARBAGE

Glen Ridge, N. J.—The construction of a garbage disposal plant is under consideration by the Town Council. L. H. Davey is interested.

Nutley, N. J.—The Board of Health plans to install an incinerator for the disposal of refuse and garbage.

Union, N. J.—(Weehawken post office)—Bids were received as follows, July 6, by the Town Council for collecting and removing ashes and garbage: (a) one year; (b) two years; (c) three years; (d) four years; (e) five years: Clinton Contracting Co., (a) $5400, (b) $11,200, (c) $17,400, (d) $24,000, (e) $31,000; Otto Roman, (a) $5800, (b) $11,600, (c) $17,400, (d) 23,200, (e) $29,000; Michael Volpi, (a) $5500, (b) $11,000, (c) $16,500, (d) $22,000, (e) $27,000; John Muller, (a) $4900, (b) $9850, (c) $14,860, (d) $19,900, (e) $25,000; Nicholas Triano, (a) $5800 for each year, or $29,000 for five years. Noted July 1.

✚West Hoboken, N. J.—Bids were received as follows, June 30, for removing garbage and ashes for periods of one, three and five years: (a) one year; (b) three years; (c) five years: CLINTON CONTRACTING CO., West Hoboken, (a) $9000, (b) $27,300, (c) $46,000 (awarded contract); A. C. Aschoff, (a) $9500, (b) $30,500, (c) $52,500; Michael Volpi, (a) $9545, (b) $28,725, (c) $48,995; F. D. Amato, (a) $9825, (b) $29,100, (c) $48,000; Tony Capone, (a) $9985, (b) $29,555, (c) $49,925; P. Peluso, (a) $11,000, (b) $34,934, (c) $60,981. Noted June 24.

Farrell, Penn.—At a recent election the citizens voted in favor of issuing bonds for $50,000, part of the proceeds of which will be used for the construction of a garbage incinerator.

★Detroit, Mich.—Bids were received June 24 by the Department of Public Works for constructing a garbage reduction plant as follows: F. H. Goddard, Inc., Detroit, $180,788; H. L. Van der Horst, Kalamazoo, $184,000; George D. Nutt Co., $185,740; C. A. Fuller Co., $186,433; John H. Parker Co., $194,877; Corrick Bros., $201,000. Noted June 3.

Kingston, Ont.—An incinerator will be constructed. Bonds for $7000 have been voted for this purpose. R. J. McClelland is Engr. Noted Feb. 4.

STREETS AND ROADS

✚Boston, Mass.—The contract for constructing 8000 lin.ft. of state road in Amherst has been awarded to the LANE CONSTRUCTION CO., Quincy, at $19,455.

Boston, Mass.—Bids will be received until July 27 by the State Highway Commission for the construction of 4600 lin.ft. of road in Andover. Arthur W. Dean, 15 Ashburton Pl., is Chf. Engr.

✚Boston, Mass.—The contract for building a bituminous macadam roadway in Pelton St. from Park St. to West Roxbury Parkway, West Roxbury, has been awarded to the CHARLES J. JACOBS CO.

✚Boston, Mass.—The contract for paving Lingard St. from Magnolia to Hartford St., Dorchester, with bitulithic has been awarded to JAMES DOHERTY, at $4731.

Boston, Mass.—(Official)—Bids will be received until noon, July 23, by E. F. Murphy, Comr. Pub. Wks., for improving Poplar St. from Sycamore St. to Brown Ave. and Hilburn St.

★Holyoke, Mass.—(Official)—Bids will be received until 2 p.m., July 23, by the Board of Public Works for approximately 1500 sq.yd. of prepared wooden paving blocks.

Whately, Mass.—Bids will be received until July 23 by the Board of Selectmen for constructing 3300 lin.ft. of macadam road. M. L. Crafts is Chn. of Selectmen.

✚Hartford, Conn.—Contracts for state road work have been awarded by the State Highway Commissioner as follows: Glastonbury Township, about 6500 lin.ft. 2-in. bituminous macadam on the Hartford-New London Turnpike, to A. E. DOUGLASS, Glastonbury, at $8289. Bethel Township, about 6315 lin.ft. gravel on the Bridgeport-Newton Turnpike, to the KELLOGG & GREGORY CO., Danbury, at $8803. Canterbury Township, about 5100 lin.ft. native stone and 1995 lin.ft. native stone resurfacing on the Westminster Rd., to the GOODMAN & TRUMBULL CO., Litchfield, at $8153. Sprague Township, about 1630 lin.ft. gravel on the Versailles Rd., to FRANK A. WILCOX, Norwich, at $1094. Noted July 1 and 15.

★Meriden, Conn.—(Official)—Bids will be received until 8 p.m., July 27, by the Board of Public Works for paving Hanover St. with wood block and reinforced-concrete pavements.

✚Providence, R. I.—(Official)—Contracts for paving Fountain and Empire St. with wood block have been awarded to the FRANKLIN CONTRACTING CO., 52 Vandervilt Ave., New York, at $11,398 and $16,465 respectively. Noted July 8.

✚★Albany, N. Y.—(Official)—Bids were received July 15 by the State Highway Commissioner for constructing roads in various counties as follows:

Road No. 1240, Broome County, 0.9 mile. FITCH & DOUGLAS, Rochester, $43,212 (awarded contract); Frank Stento, Binghamton, $43,870; Tyne & Willey, Binghamton, $45,095; William C. Evans, Ambler, Penn., $45,101; George Serofini and M. Barber, Binghamton, $46,970.

Road No. 5265-A, Cattaraugus County, 0.93 mile. THOMAS FITZGERALD CO., Fredonia, $47,994 (awarded contract); H. E. Bunce, Olean, $51,056; South Shore Construction Co., Inc., Erie, Penn., $52,329; William C. Evans, Ambler, Penn., $52,359; C. H. Kaumeir, Buffalo, $56,288.

Road No. 1012-A, Chautauqua County, 1.51 miles. DUNKIRK CONSTRUCTION CO., Dunkirk, $19,760 (awarded contract); Woolsey Construction Co., Poughkeepsie, Penn., $19,830; William C. Evans, Ambler, Penn., $20,592; Shaw & Lakin, Jamestown, $20,744; South Shore Construction Co. Inc., Erie, Penn., $21,227; O. M. Severson, Erie, Penn., $21,622.

Road No. 1296, Chautauqua County, 0.77 mile. WILLIAM C. EVANS, Ambler, Penn., $11,982 (awarded contract); Dunkirk Construction Co., Dunkirk, $11,996; Elmer M. Love & Sons, Corry, Penn., $12,144.

Road No. 1297, Chautauqua County, 3.55 miles. JOHN F. DOLAN CONTRACTING CO., New York, $72,537 (awarded contract); William C. Evans, Ambler, Penn., $73,814; Dunkirk Construction Co., Dunkirk, $74,154; O. M. Severson, Erie, Penn., $74,416; South Shore Construction Co. Inc., Erie, Penn., $75,951.

Road No. 1298, Chautauqua County, 0.93 mile. WILLIAM C. EVANS, Ambler, Penn., $21,875 (awarded contract); Dunkirk Construction Co., Dunkirk, $21,943; O. M. Severson, Erie, Penn., $22,167; South Shore Construction Co. Inc., Erie, Penn., $22,752; Shaw & Lakin, Jamestown, Penn., $23,034.

Road No. 5566, Cortland County, 0.23 mile. S. P. HULL, Cortland, $2318 (awarded contract); Richard Hopkins, Troy, N. Y., $2498.

Road No. 1289, Erie County, 0.34 mile. Busch & Percival, Buffalo, $16,601; Rich Construction Co., Inc., East Aurora, $17,627. Award withheld.

Road No. 5550, Erie County, 0.59 mile. Busch & Percival, Buffalo, $28,459; William C. Evans, Ambler, Penn., $28,789; Rich Construction Co., Inc., East Aurora, $30,230. Award withheld.

Road No. 619, Fulton County, 2.12 miles. BRADY-OLTARSH CONSTRUCTION CO. INC., New York, $20,237 (awarded contract); Clarence Welsh & Co., Gloversville, $20,264.

Road No. 1290, Monroe County, 1.53 miles. THOMAS GRADY, Rochester, $15,679 (awarded contract); Newport Construction Co., Herkimer, $16,284; Monroe Roads Co., Pittsford, $16,436; Ribstein-Holter Co. Inc., Rochester, $16,578; Morrisson & Quinn, Rochester, $16,717; Chambers & Barnes, Rochester.

Road No. 511, Montgomery County, 3.81 miles. DALE ENGINEERING CO., Utica, $31,869 (awarded contract); Semper Bros., Watertown, $32,310; Brady-Oltarsh Construction Co. Inc., New York, $33,010; Newport Construction Co., Herkimer,

$33,390; D. I. Snell & Co., Canajoharie, $33,537; Fort Schuyler Construction Co. Inc., Oneida, $35,063.

Road No. 5280, Nassau County., 1.57 miles. ULRICH & PERSICANE, Brooklyn, $24,035 (awarded contract); Westchester-Dutchess Corporation, Mt. Vernon, $24,208; Nordone & Petrillo, Mt. Vernon, $24,762; E. T. Eggleston, Yonkers, $25,811; John L. Hayes Construction Co., Yonkers, $25,907; Gifford Construction Co., Jamaica, $26,429; Thomas F. Tuohy, Flushing, $26,470; Murray & Gardner, Center Moriches, $26,809; Belmar Contracting Co. Inc., Troy, $26,938.

Road No. 1209, Onondaga County, 0.27 mile. MONODO CONSTRUCTION CO., Syracuse, $12,654 (awarded contract); C. T. Hookway Construction Co., Syracuse, $12,660; John Davin, Syracuse, $12,944; M. J. Gleason & Co., Syracuse, $13,156; J. J. Cashin, Fayetteville, $13,426; Samuel Bonn, Syracuse, $13,428; Sullivan Construction Co., Syracuse, $13,831; William H. Ring Contracting Co., Ogdensburgh, $14,338.

Road No. 1294, Ontario County, 1.38. CHAMBERS & BARNES, Rochester, $14,520 (awarded contract); Ribstein-Holter Co. Inc., Rochester, $15,140; J. W. Brennan Construction Co. Inc., Geneva, $15,333; Ontario Roads Co., Manchester, $15,610; Thomas F. Murray, Le Roy, $16,292.

Road No. 1302, Otsego County, 12.66 miles. J. A. CULKIN, Oswego, $130,509 (awarded contract); Ruddy-Saunders Construction Co. Inc., Troy, $132,741; Peter F. Connolly Co., Horseheads, $133,067; Weed & Walsh, Mechanicsville, $133,734; D. L. Anderson, Albany, $134,797; Richard Hopkins, Troy, $135,821; Brady-Oltarsh Construction Co., Inc., New York, $139,548; Conroy & Nixdorf, Oneida, $147,689.

Road No. 1 1303, Otsego County, 2.52 miles. ALONZO SCHAUPP, Guilderland, $19,982 (awarded contract); Newport Construction Co., Herkimer, $21,275; Weed & Walsh, Mechanicsville, $22,049; John H. Gordon, Albany, $22,186; Paddelford & King, Sherburne, $22,420; F. P. Meckes, Long Pond, Penn., $22,802; Richard Hopkins, Troy, $22,958; Dale Engineering Co., Utica, $23,341; John A. Jova Inc., Newburgh, $23,412; Fort Schuyler Construction Co., Inc., Oneida, $23,903; Brady-Oltarsh Construction Co. Inc., New York, $23,933.

Road No. 1295, Rockland County, 2.95 miles. BRADY-OLTARSH CONSTRUCTION CO. INC., New York, $38,135 (awarded contract); Ruddy-Saunders Construction Co., Troy, $39,914; John A. Jova, Inc., Newburgh, $40,279; William F. McCabe Contracting Co. Inc., White Plains, $40,326; E. T. Eggleston, Yonkers, $40,398; John L. Hayes Construction Co., Yonkers, $40,751; Utility Construction Co. Inc., New Brunswick, N. J., $48,107.

Road No. 5537, Steuben County, 1.72 miles. KENNEDY CONSTRUCTION CO., Albany, $29,880 (awarded contract); Frank Malone, Syracuse, $30,964; Greenfield Construction Co., Hornell, $30,995; William C. Evans, Ambler, Penn., $31,607; Sullivan Construction Co., Syracuse, $32,168; Chambers & Barnes, Rochester, $32,603; C. F. McGuire, Hornell, $32,920.

Road No. 1291, Suffolk County., 3.25 miles. NORDONE & PETRILLO, Mt. Vernon, $39,879 (awarded contract); Westchester-Dutchess Corporation, Mt. Vernon, $41,544; Brady-Oltarsh Construction Co. Inc., New York, $42,025; John L. Hayes Construction Co., Yonkers, $42,530; Municipal Asphalt Corporation, New York, $42,670; E. T. Eggleston, Yonkers, $43,732; Murray & Gardner, Center Moriches, $43,754; Belmar Contracting Co., Inc., Troy, $45,172; James J. Gallagher, Brooklyn, $45,347; Rosenthal Engineering & Contracting Co., Inc., Brooklyn, $52,780.

Road No. 5570, Ulster County, 2.97 miles. FRANK SALVOUCCI, West Hurley, $29,214 (awarded contract); Marks Kearney, Hudson, $31,139; Henry Clinton, Poughkeepsie, $31,870; Ruddy-Saunders Construction Co., Troy, $32,755; John F. Gallagher, Kingston, $32,905; S. V. Van Wagonen, Inc., Roundout, $33,191; George McEvoy, Creek Locks, $34,148; William G. Fox, Saratoga Springs, $35,237; Conroy Bros. & Kennedy, Eddyville, $35,254; Blankfield & Donovan, Kingston, $36,711; Brady-Oltarsh Construction Co. Inc., New York, $36,876; De Graaf & Hogeboom, Kingston, $37,244; Winston & Co., Brown Station, $37,511.

Road No. 1228, Warren County, 5.13 miles. Kingsbury Construction Co., Hudson Falls, $69,583; D. L. ANDERSON, Albany, $69,707 (awarded contract); John H. Gordon, Albany, $69,852; Brady-Oltarsh Construction Co. Inc., New York, $71,420; Kellogg & Boynton, Keesville, $74,460; Cæsar A. Rossi, Horicon, $74,828; William G. Fox, Saratoga Springs, $75,091; Joseph McCormick, East Providence, R. I., $75,128.

✚✚Albany, N. Y.—(Official)—Bids were received July 15 by the State Highway Commissioner for repaving highways in various counties as follows:

Repair Contract No. 812, Road No. 125, Road No. 174, Broome County, 3.67 miles. LANE CONSTRUCTION CORPORATION, Meriden, Conn., $33,292 (awarded contract); Charles E. Haney, Camillus, $33,415; Ruddy-Saunders Construction Co., Troy, $34,596; W. C. Evans, Ambler, Penn., $36,969.

Repair Contract No. 810, Road No. 294, Monroe County, 2.92 miles. DODGE CONSTRUCTION CO. INC., Rochester, $12,591 (awarded contract); Monroe Roads Co., Pittsford, $12,828; Ribstein-Holter Co. Inc., Rochester, $12,859; I. M. Ludington Sons, Inc., Rochester, $13,168; Thomas Grady, Rochester, $13,625.

Repair Contract No. 811, Road No. 172, Monroe County, 0.67 mile. FLOWER CITY CONTRACTING CO., Rochester, $14,828 (awarded contract); Dodge Construction Co., Rochester, $14,841; Whitmore-Rauber & Vicinius, Rochester, $14,895; Ribstein-Holter Co. Inc., Rochester, $15,204.

Repair Contract No. 489, Road No. 63, Road No. 79, Monroe County, 1.52 miles. UNION PAVING CO., Schenectady, $15,074 (awarded contract); Langan Construction Corporation, Albany, $15,317; Whitmore-Rauber & Vincinius, Rochester, $18,195; Peter F. Connolly Co., Horseheads, $18,648; Ribstein-Holter Co. Inc., Rochester, $20,873. Noted June 24.

✚✚Albany, N. Y.—(Official)—Bids were received July 13, by the State Highway Commissioner for constructing roads in various counties as follows:

Road No. 5565, Chenango County, 7.78 miles. FRED E. GROSS & SONS, Yonkers, $85,290 (awarded contract); T. H. Gill Co., Binghamton, $86,184; Paddelford & King, Sherburne, $86,547; Weed & Walsh, Mechanicsville, $87,896; George F. Child, Albany, $88,502; Lane Construction Corporation, Meriden, Conn., $89,271; Ruddy-Saunders Construction Co., Troy, $89,842; Semper Bros., Watertown, $90,469; Conroy & Nixdorf, Oneida, $91,396; Joseph McCormick, East Providence, R. I., $92,867.

Road No. 5568, Chenango County, 4.02 miles. PADDELFORD & KING, Sherburne, $46,693 (awarded contract); Newport Construction Co., Herkimer, $47,965; Greenfield Construction Co., Hornell, $48,572; Joseph McCormick, East Providence, R. I. $51,714.

Road No. 1225, Jefferson County, 2.86 miles. JOSEPH McCORMICK, East Providence, R. I., $17,830 (awarded contract).

Road No. 1226, Jefferson County, 2.40 miles. JOSEPH McCORMICK, East Providence, R. I., $15,621 (awarded contract).

Road No. 1299 Lewis County, 2 miles. SPERI MANOLIVER CO., Chateaugay, $18,646 (awarded contract); Thomas Grady, Rochester, $19,416.

Road No. 1300, Lewis County, 8.82 miles. FRED E. GROSS & SON, Yonkers, $76,244 (awarded contract); J. A. Culkin, Oswego, $81,385; Brady-Oltarsh Construction Co., Inc., New York, $84,545; J. G. Hayes Co. Inc., Rome, $86,361; C. S. Mathusa, Albany, $87,145; J. H. Weidman, Syracuse, $87,855; Thomas Grady, Rochester, $88,328; James E. Martin, Utica, $94,115.

Road No. 1301, Lewis County, 1.27 miles. HARRY W. ROBERTS & CO., Utica, $32,398 (awarded contract); R. D. Cooper, Little Falls, $34,235.

Road No. 410, Montgomery County, 7.10 miles. JAMES ANDERSON, Menands, $70,465 (awarded contract); Brady-Oltarsh Construction Co. Inc., New York, $71,965; Conroy & Nixdorf, Oneida, $76,328; James E. Martin, Utica, $81,144.

Road No. 1265, St. Lawrence County, 5.50 miles. FRED E. GROSS & SON, Yonkers, $48,961 (awarded contract); Thomas Grady, Rochester, $51,882; Henry P. Burgard Co., Buffalo, $51,948; E. T. Eggleston, Yonkers, $51,949; Ross-Hallenbeck Construction Co., Copenhagen, $54,328; L. S. Derosia, Massena, $57,209.

Road No. 5569, Schoharie County, 4.79 miles. DEGRAAF & HOGEBOOM, Kingston, $47,980 (awarded contract); Weed & Walsh, Mechanicsville, $48,243; S. V. Van Wagonen, Inc., Rondout, $48,612; Ruddy-Saunders Construction Co., Troy, $48,842; George F. Child, Albany, $50,068; C. S. Mathusa, Albany, $51,010; Brady-Oltarsh Construction Co. Inc., New York, $51,979; George Holler, Albany, $53,339; Lane Construction Corporation, Meriden, Conn., $54,160; John A. Jova, Inc., Newburgh, $54,441.

Road No. 5557, Schuyler County, 6.03 miles. JAMES T. MOORE, Elmira, $61,507 (awarded contract); J. W. Brennan Construction Co. Inc., Geneva, $61,954; Sullivan Construction Co., Syracuse, $62,425; Atlanta Construction Co., Atlanta, $63,828; John W. Gurnett, Watkins, $64,577; Richard Hopkins, Troy, $64,854; Peter F. Connolly Co., Horseheads, $64,871; John H. Gordon, Albany, $65,001; Brady-Oltarsh Construction Co., Inc., New York, $65,732; Lane Construction Corporation, Meriden, Conn., $69,502.

Road No. 1232, Schuyler County, 1.11 miles. FRANK MALONE, Syracuse, $26,157 (awarded contract); J. W. Brennan Construction Co. Inc., Geneva, $26,533; Peter F. Connolly Co., Horseheads, $27,105; John R. Burchill, Syracuse, $28,123.

Road No. 1102, Steuben County, 9.09 miles. ATLANTA CONSTRUCTION CO., Atlanta, $77,710 (awarded contract); Sullivan Construction Co., Syracuse, $81,202; Richard Hopkins, Troy, $83,331; Dale Engineering Co., Utica, $83,679; John R. Burchill, Syracuse, $84,229; Thomas Hucknall, Albion, $83,882; John H. Gordon, Albany, $85,918; Brady-Oltarsh Construction Co., Inc., New York City, $87,435; John Johnson Construction Co., Buffalo, $88,474.

Road No. 1292, Steuben County, 3.42 miles. J. G. HAYES CO., INC., Rome, $34,178 (awarded contract); Dale Engine Co., Inc., Utica, $34,566; Thomas Grady, Rochester, $34,946; Atlanta Construction Co., Atlanta, $34,964; Sullivan Construction Co., Syracuse, $35,297; Frank Malone, Syracuse, $36,377; Richard Hopkins, Troy, $37,499; Bison City Engineering & Contracting Co., Buffalo, $38,019.

Road No. 5564, Steuben County, 7.31 miles. DALE ENGINEERING CO., Utica, $59,744 (awarded contract); Kennedy Construction Co., Albany, $61,974; Atlanta Construction Co., Atlanta, $65,125; P. H. Murray, Rochester, $65,859; J. G. Hayes & Co. Inc., Rome, $66,029; Sullivan Construction Co., Syracuse, $67,756; John H. Gordon, Albany, $67,928; Peter F. Conley Co., Horseheads, $68,067; John C. Bradley, Corning, $68,759; Fred E. Gross & Sons, Yonkers, $69,405; James T. Moore, Elmira, $70,501.

Road No. 5457-A, Sullivan County, 0.72 mile. JOHN A. JOVA, INC., Newburgh, $12,266 (awarded contract); John J. Keating, Monticello, $12,672; Jackson Bros., Cuddebackville, $12,964.

Road No. 5567, Tompkins County, 3.04 miles. JOHN R. BURCHILL, Syracuse, $28,872 (awarded contract); Frank Malone, Syracuse, $29,104; Sullivan Construction Co., Syracuse, $29,779; Brady-Oltarsh Construction Co. Inc., New York, $30,643; Patrick D. Conley, Ithaca, $31,183; F. P. Meckes, Long Pond, Penn., $31,313; Richard Hopkins, Troy, $31,442; Juniata Co., Philadelphia, Penn., $31,997.

Road No. 5571, Westchester, County, 4.32 miles. FAGNANI & MARRA, Tuckahoe, $49,822 (awarded contract); Fred E. Gross & Sons, Yonkers, $52,430; John L. Hayes Construction Co., Yonkers, $53,626; Westchester-Dutchess Corporation, Mt. Vernon, $53,846; White & Colligan, Purchase, $55,516; Harris-Rose Construction Corporation, New York, $56,509; Brady-Oltarsh Construction Co., Inc., New York, $56,607; E. T. Ekkleston, Yonkers, $56,956; William F. McCabe Contracting Corporation, Inc., White Plains, $57,875; Nordone & Petrillo, Mt. Vernon, $58,345; Frank G. Fowler Construction Co., Mt. Kisco, $58,498.

Road No. 1088, Wyoming County, 1.53 miles. FRANK M. FOOTE, Arcade, $24,932 (awarded contract); John Johnson Construction Co., Buffalo, $25,172.

Road No. 1267, Wyoming County, 6.99 miles. FRED E. GROSS & SONS, Yonkers, $67,390 (awarded contract).

★Albany, N. Y.—(Official)—Bids were received July 13 by the State Highway Commission, Lancaster St., Albany, for the repair of highways by state aid as follows:

Repair Contract No. 556, Road No. 216, Delaware County, 0.95 mile. SCHUNNEMUNK CONSTRUCTION CO., Highland Mills, $7901 (awarded contract); DeGraafe & Hogeboom, Inc., Kingston, $10,236.

Repair Contract No. 809, Road No. 334, Ontario County, 1.69 mile. HARRY W. ROBERTS CO., Utica, $17,170 (awarded contract); Lane Construction Corporation, Meriden, Conn., $18,830; Langan Construction Corporation, Albany, $18,885; J. W. Brennan Construction Co., Inc., Geneva, $19,467; Union

Paving Co., Schenectady, $20,745; Federal Asphalt Corporation, New York, $22,027.

Repair Contract No. 813, Road No. 5111 and 5112, Suffolk County, 4.08 miles. WILLIAM DOYLE, Saugerties, $17,787 (awarded contract); Municipal Asphalt Co., New York, $19,967; Barker-Bonner Co., Inc., New York, $20,405; Frank Nordone, Mt. Vernon, $21,186; John J. Guinan Contracting Co., Brooklyn, $22,096. Noted June 24.

✚Batavia, N. Y.—A contract for paving Tracy, Dellinger and Vernon Ave. and Elm St. has been awarded to THOMAS HOLAHAN, Rochester, at $53,156. Noted July 1.

✚Binghamton, N. Y.—The contract for paving Beethoven St. has been awarded to WARREN BROS., at $2.28 per sq.yd.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received by Douglas Mathewson, Borough Pres., for improving (a) Rosewood St. from Bronx Blvd. to White Plains Ave., (b) Glover St. from Castle Hill to Westchester Ave., (c) Holland Ave. from Baker to Hunt Ave., (d) East 174th St. from Bryant to Boone Ave., (e) Albany Crescent from Bailey Ave. south of West 231st St. to Bailey Ave. to West 233rd St., as follows: Harris-Rose Construction Co., (a) $6039; H. F. Breen, (a) $5847; J. Di Menna, (a) $5511, (b) $9275, (c) $15,500; Burnside Contracting Co., (a) $6035, (b) $9322, (c) $15,860; M. Maher, (a) $6035; M. Di Menna, (a) $5890; Delson Contracting Co., (a) $6038, (b) $10,379, (c) $15,067; Sparara Contracting Co., (a) $6172; S. Amanna & Sullivan, (a) $6065, (c) $17,074; Di Menna & De Blasio, (a) $5666, (b) $10,050, (c) $15,851; J. F. Calahan, (b) $9586; D. J. Duffy, (c) $19,683; Barber Asphalt Co., (d) $4195, (e) $6324; Municipal Asphalt Co., (d) $3805, (e) $6324; Asphalt Construction Co., (d) $3986, (e) $6373; Uvalde Asphalt Co., (d) $3589, (e) $5751.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received for regulating, grading and paving with asphalt on a concrete foundation a traffic roadway on Park Circle, at the interception of Coney Island Ave. and Ocean Parkway, as follows: Uvalde Asphalt Co., 1 Broadway, $5049; Barber Asphalt Co., $6475; Sicilian Asphalt Co., $7670; Cranford Co., $6908.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., July 28, by L. H. Pounds, Borough Pres., for improving portions of Newton St., Skillman St. and Vernon Ave., also for 50,000 asphalt paving blocks, 50,000 wood paving blocks, 1800 cu.yd. of broken trap rock and 1200 cu.yd. of trap rock screenings.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received July 15 by Marcus M. Marks, Borough Pres., for improving (a) 68th St. from Park to Fifth Ave., (b) 100th St. from Central Park West to Amsterdam Ave., (c) 100th St. from West End Ave. to Riverside Drive, (d) Riverside Drive from 177th to 181st St., as follows: Cleveland Trinidad Paving Co., (a) $8499, (b) $39,328, (c) $5309; Barber Asphalt Co., (a) $7901, (b) $36,795, (c) $3946; Aztec Asphalt Co., (a) $7464, (b) $29,302, (c) $4036; Sicilian Asphalt Co., (a) $7109, (b) $35,642, (c) $4288; Asphalt Construction Co., (a) $7098, (b) $35,672, (c) $4189; Uvalde Asphalt Co., (a) $7780, (b) $29,553, (c) $4521; Peter Kramer, (d) $7537; P. J. Duffy, (d) $6043; Di Menna & De Paola, (d) $6876; Di Menna & De Blasio, (d) $5697; Arthur Casey, (d) $9087; Federal Asphalt Co., (d) $6839.

✚Rochester, N. Y.—The contract for paving Mayberry St. with asphalt has been awarded to the JULIUS FRIEDERICH CO., at $5250.

Bloomfield, N. J.—Bids will be received until 8 p.m., Aug. 2, by Raymond F. Davis, Town Clk., for improving Essex Ave., Berkeley Ave., Harrison and Grove St. Estimated cost, about $15,200.

East Orange, N. J.—Bids will be received until 8 p.m., July 26, by the City Council for grading, curbing and paving Girard Ave. and Linden Ave.

✚Elberon, N. J.—The contract for repaving Ocean Ave. from the Allenhurst line to Elberon has been awarded to the SCHEFFIER-BURNS CO., at $132,000.

Elizabeth, N. J.—Press reports state that the Common Council has appropriated $70,368 for resurfacing Telford roads and $32,000 for repaving Broad St.

✚Harrison, N. J.—The contract for paving Middlesex St. from Second to Fourth St. has been awarded to the GLENFIELD CONSTRUCTION CO., at $10,632.

Hoboken, N. J.—Bids will be received until 10 a.m., July 28, by the Board of City Commissioners for grading and repaving portions of Third, Fourth, Fifth, Sixth, Jefferson, Adams, Hudson, River and 14th St. and Willow Ave.

Hoboken, N. J.—(Official)—Bids will be received until 10 a.m., July 28, by the Board of City Commissioners for improving a portion of the concrete walks in Elysian Park. Daniel A. Haggerty is City Clk.

Jersey City, N. J.—Bids will be received until 11 a.m., July 28, by the Board of Commissioners for repaving a portion of Whiton St. with asphalt block and a portion of Tonnele Ave. with wood block. Michael I. Fagen is City Clk. Noted July 8.

✚Millburn, N. J.—(Official)—A contract for grading, draining and paving Highland Ave. has been awarded to J. H. SCHMIDT, Millburn. Noted July 8.

Newark, N. J.—The Board of Street and Water Commissioners plans to pave Eckert Ave. with asphalt from Seymour Ave. to Osborne Terrace. P. H. Ryan is Pres. Bd.

Newark, N. J.—Bids were received July 15 for paving South Orange Ave. from South Ninth to South 20th St., as follows: John E. Donovan, Port Richmond (Borough of Richmond), $28,885; John S. Geiger & Son, Newark, $32,850; Hastings Pavement Co., 25 Broad St., Newark, $32,410; Northern Construction Co., $35,031; Newark Paving Co., $30,923; Ralph Sangiovanni, $27,826; Glenfield Construction Co., $30,616. Noted July 8.

Norwood, N. J.—(Official)—Bids will be received until 8 p.m., July 23, by the Borough Council for repairing Tappan Rd. A. J. Kuhl is Borough Clk.

✚Weehawken, N. J.—(Official)—The contract for paving Clifton Terrace with concrete block has been awarded to the CLINTON CONTRACTING CO., West Hoboken, at $7518. Noted July 1 and 15.

West New York, N. J.—The Town Council has authorized the City Engineer to prepare plans and specifications for the improvement of 10th and 11th St.

West New York, N. J.—The Town Council has had plans prepared for improving Adams and Seventh St.

✚Clarion, Penn.—(Official)—A contract for constructing brick and concrete pavements has been awarded to L. H HILEMAN & CO., New Kensington, $12,628. Noted July 8.

Greensburg, Penn.—(Official)—Bids will be received until noon, July 23, by John S. Sell, City Controller, for improving sections of the highway in Mt. Pleasant Township, being parts of the Kecksburg-Donegal Rd.

✚Pittsburgh, Penn.—Contracts have been awarded by the Commissioners of Allegheny County for road construction as follows: Braddock and Ardmore Rd. in Braddock Township, brick, McCURDY BROS., $7086; Newton and Rodi Rd. in Wilkins Township, brick, JAMES SWEENEY, $25,568; McCoy Extension Rd. in Stowe and Kennedy Townships, macadam, D. W. CHALLIS & SONS, $17,669; Wilmerding and Monroeville connecting road in Patton Township, macadam, R. H. CUNNINGHAM & SONS CO., $25,204; Millers Rune Extension Rd. in South Fayette Township, brick, WILLIAM J. PAYNE, JR., CO., $42,473. Noted July 1.

✚Baltimore, Md.—The contract for paving Cliftview Ave. and Norwood Rd. with asphalt has been awarded to the AMERICAN PAVING CO., at $10,717.

✚Towson, Md.—The contract for paving Roland Ave. from Deepdine Rd. to Lake Ave. has been awarded to P. FLANIGAN & SONS, 120 East Lexington St., at $50,000.

✚Charleston, W. Va.—A contract for constructing 5¼ miles of improved roadway has been awarded to the CAREY-REED CO., Lexington, Ky., at $90,000.

Moundsville, W. Va.—(Official)—Bids will be received until noon, July 26, by O. B. Bonar, City Clk., for improving Fifth St.

✚Baton Rouge, La.—A contract for constructing 15 miles of street pavement has been awarded to G. W. PRUTSMAN, Danville, at approximately $200,000.

Lake Charles, La.—Press reports state that the Commissioners of Cemeron Parish have authorized the expenditure of $36,000 for constructing and improving roads.

✚Chattanooga, Tenn.—A contract for constructing Lookout Mountain Pike has been awarded to the McISAAC-GENTRY CONSTRUCTION CO., Chattanooga, at $101,000. Noted May 27.

Knoxville, Tenn.—The citizens of Union County have voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for work to be done on the Dixie Highway.

Memphis, Tenn.—All bids received for paving the Mississippi Blvd. from Calhoun Ave. and Lauderdale St. have been rejected. Noted July 15.

✚Elizabethtown, Ky.—A contract for constructing four miles of macadam road has been awarded to J. VAN FLETCHER, Elizabethtown, at $5000.

✚Georgetown, Ky.—A contract for constructing macadam roads in Scott County has been awarded to J. WILLIAM COYLE and J. S. LANCASTER, at $18,000.

✚Morganfield, Ky.—The contract for paving Main St. with vitrified brick has been awarded to COLLINS & PAVEY, Mt. Vernon, Ill., at $12,600.

Bexley, Ohio—(Official)—Bids will be received until noon, Aug. 6, by Chester A. Miller, Village Clk., for the sale of $124,000 in bonds, the proceeds of which will be used for improving various streets.

✚Cincinnati, Ohio—Contracts have been awarded for improving the Plainfield Rd. to R. E. CASH, $6038; Lee's Creek Rd. to TOPH & HOLDEN, $9550. Noted June 17.

✚Cincinnati, Ohio—(Official)—The contract for improving Lee's Creek Rd. from Biddinger Pike to Crosby Township line, in Harrison Township has been awarded to TOPH & HOLDEN, Harrison, at $9550. Noted June 17.

Coshocton, Ohio—(Official)—Bonds for $11,000 were sold July 10, the proceeds of which will be used for improving Seventh Ave. from Kenilworth Ave. to Bank St. Noted July 1.

Cuyahoga Falls, Ohio—(Official)—Bids will be received until noon, July 28, by W. F. Williston, Village Clk., for improving Portage St.

Defiance, Ohio—(Official)—Bids will be received until July 28 by Clayton M. Rath, Dir. Pub. Ser., for laying 28,129 sq.yd. of pavement.

Delaware, Ohio—Bids will be received until 10 a.m., Aug. 4, by the County Surveyor for improving and paving 0.56 miles of Trimmer Joint County Rd., in Delaware County. F. C. Higley is Engr.

East Cleveland, Ohio—Press reports state that the City Council plans an expenditure of $200,000 for paving three miles of Euclid Ave.

✚Euclid, Ohio—(Official)—The contract for repairing Euclid Rd. and Chardon Rd. has been awarded to SPENCE BROS., Cleveland. Noted July 1.

Lima, Ohio—(Official)—Bids will be received until noon, July 29, by the Board of Commissioners of Allen County for constructing approximately 5800 sq.yd. of concrete pavement, 18 lin.ft. wide. H. J. Lawlor is County Clk.

✚Portsmouth, Ohio—(Official)—Contracts for paving Park Ave., Harward Pl., Walnut and Norfolk St., have been awarded to KELLEY BROS., Portsmouth, at $4745, $1949, $2089 and $15,468 respectively. Noted July 1.

Salineville, Ohio—(Official)—Bids will be received until noon, Aug. 2, by W. E. Schubert, Village Clk., for the sale of $9000 in bonds, the proceeds of which will be used for improving a number of streets.

✚Franklin, Ind.—The contract for constructing a gravel road in Union Township has been awarded to BROWN & PITCHER, Bargersville.

South Bend, Ind.—(Official)—Bids will be received until 11 a.m., Aug. 16, by the Commissioners of St. Joseph County for constructing a concrete road in Penn Township. Clarence Sedwick is County Audr.

Aurora, Ill.—Bids will be received about Aug. 1 for paving South River St. M. Tarble is Engr.

Paris, Ill.—(Official)—Bids will be received until 2 p.m., July 31, by the Commissioners of Highways of Hunter Township for constructing 3960 lin.ft. of gravel road on the Baldwinsville State Line Rd. and 5280 lin.ft. of gravel road on the Heelan Rd. in Hunter Township.

✚Brocton, Ill.—(Official)—The contract for constructing combination rock and gravel roads on four highways in Embarrass Township has been awarded to SNYDER & BARNETT, Frankfort, at $20,345. Noted June 17 and July 1.

✚Paris, Ill.—A contract for graveling the Redmon, Stewart and Culbertson Roads has been awarded to RALPH BAUM, at $8886.

✚Madison, Wis.—The contract for paving Williamson St. from South Blair to South Blount St. has been awarded to J. W. MITCHELL, Madison, at $9994.

Milwaukee, Wis.—Press reports state that the Board of Public Works plans to pave Center and Vliet St.

Racine, Wis.—Bids will be received until 10 a.m., Aug. 7, by the Board of Public Works for paving West Blvd. from Washington to Kinzie Ave.

✚Racine, Wis.—A contract for paving a number of alleys has been awarded to the FLEROTILE & CEMENT CONSTRUCTION CO., Racine.

✚Sheboygan, Wis.—The contract for paving South 14th St. with concrete has been awarded to JOHN BRAUN, Sheboygan, at $30,260.

Duluth, Minn.—(Official)—Bids will be received until 11 a.m., July 26, by the Commissioner of Public Works for improving Colorado St.

✚St. Cloud, Minn.—A contract for constructing concrete sidewalks has been awarded to GRUBER & CO. Noted June 3.

✚Grand Island, Neb.—A contract for laying approximately nine block of brick block pavement has been awarded to R. D. KINGSBURY.

Lincoln, Neb.—(Official)—Bids will be received until 10 a.m., July 27, by Thomas J. Flynn, City Clk., for improving a number of streets.

Sinto, Tex.—At a recent election the citizens of District No. 3, San Patrico County, voted in favor of issuing $75,000 in bonds, the proceeds of which will be used for constructing roads.

Santa Fé, N. M.—Bonds for $500,000 have been sold by the State Highway Commission, the proceeds of which will be used for constructing roads throughout the state.

Provo, Utah.—Press reports state that bids will soon be received by the City Council for constructing one mile of concrete pavement, at an estimated cost of $30,000.

Phœnix, Ariz.—Press reports state that the citizens of Cohise County will soon vote on the question of issuing bonds, the proceeds of which will be used for constructing and improving roads throughout the county.

✚Blaine, Wash.—A contract for constructing concrete pavements has been awarded to BOOKER & CAMPBELL, Bellingham.

✚Cathlamet, Wash.—(Official)—The contract for improving a portion of State Road No. 19, beginning at Skamokawa, running eastward a distance of 6½ miles has been awarded to SLOAN BROS., Seattle, at $26,311. Other bids were: Standefer-Clarkson, $30,000; Montague O'Reilly Co., $28,000; Elliott Contracting Co., $27,000. Noted July 1.

✚Ferndale, Wash.—A contract for street paving has been awarded to TROPMAN & BOERHAVE, Lynden, at $12,485.

✚Mt. Vernon, Wash.—The contract for paving Permanent Highway No. 2 has been awarded to FERCH & GASS, White Bldg., Seattle, at $26,595.

Seattle, Wash.—Bids will be received until 11 a.m., Aug. 2, by the Commissioners of King County for constructing Permanent Highway No. 11. Byron Phelps is County Audr. and Clk.

Seattle, Wash.—The City Council has approved plans for the paving of Utah Ave. with brick.

Walla Walla, Wash.—The City Commission plans to pave Rose and 12th St., which when completed will connect with Walla Walla County macadam roads. The estimated cost is $18,000.

✚Wenatchee, Wash.—The contract for constructing permanent Highway No. 6 has been awarded to J. GARLAND, at $14,797.

Clatskanie, Ore.—The City Council plans to construct concrete sidewalks on the main streets of the city, at an estimated cost of $20,000.

✚Portland, Ore.—The contract for paving Brooke St. from Scott Ave. to East Stark St. with concrete has been awarded to GIEBISCH & JOPLIN, Portland, at $14,071.

✚Fullerton, Calif.—The contract for paving Broad Rd. with asphaltic concrete has been awarded to O. & C. CONSTRUCTION CO., La Habra (Fullerton post office), at $36,000.

Lindsay, Calif.—Bids will soon be received by the City Council for paving approximately 12 blocks of city streets.

✚Los Angeles, Calif.—The contract for improving Ardmore Ave. from San Marino and 11th St. has been awarded to E. A. BAKER, at $5972.

Los Angeles, Calif.—Bids will be received until 2 p.m., July 26, by the Board of Supervisors for road improvements in District No. 3 of Los Angeles County.

✚Quincy, Calif.—The Supervisors of Plumas County have awarded the contract to the BRADLEY ENGINEERING CO., Reno, at $7600, for constructing a road in Sierra Valley.

Sacramento, Calif.—(Official)—Bids were received July 6 by the State Highway Commission for constructing highways as follows: (a) Contra Costa County, Route 14, Section B, (b) Glen County, Route 7, Section B, (c) Tehama County, Route 3, Section C, (d) Tulare County, Route 10, Section A, (e) Tulare County, Routes 4 and 10, Sections B [illegible] D. F. Rolandi, San Francisco, (a) $39,234, (c) $48,773; [illegible] Costa Construction Co., Berkeley, (a) $35,980; Jame[illegible] Fitzpatrick, Sacramento, (a) $39,009, (c) $48,137; Theodore [illegible] and Thomas H. Muller, San Francisco, (a) $39,306; [illegible] H. Falconer, Pinole, (a) $39,662; O'Brien Bros., Martin[illegible] $35,548; Spring Construction Co., Berkeley, (a) $38,198; W. A. Bechtel, Atton, (a) $45,297; W. B. Hunter & Sons, A[illegible] (a) $39,844, (b) $38,441; Hard Bros., Ukiah, (a) $51,1[illegible] McLean Construction Co., San Francisco, (a) $40,[illegible] $54,486; W. J. Schmidt, Berkeley, (a) $36,098; Palmer [illegible] Mc-Bryde, San Francisco, (a) $47,708; Richard Rothwe[illegible] Angeles, (a) $34,054, (c) $60,967; Urban Construct[illegible] Co., San Francisco, (a) $29,833; Blanchard Brown Co., (a) [illegible] Bates Borland & Ayer, Oakland, (a) $33,623; Occident[illegible] construction Co., Los Angeles, (a) $38,987; Fairbanks & [illegible] Willits, (a) $34,190; G. W. Conners, Eureka, (a) $37,[illegible] $52,117; L. F. Gerdetz, San Francisco, (b) $37,327; [illegible] Rock Co., San Anselmo, (b) $37,204; Highway Paving & Construction Co., San Francisco, (b) $39,867, (d) $17,4[illegible] $33,462; H. G. Vaughan Construction Co., San Francisco, (b) $35,209; C. H. & A. W. Gorrill, San Francisco, (b) $[illegible] P. H. Hoare, Oakland, (b) $44,876; Taylor & Berliner, Los Angeles, (b) $33,817, (e) $40,504; H. H. Harlan & C. M. Harlan, Williams, (c) $49,214; Shattuck & Nimmo Warehouse Co., Bakersfield, (d) $17,522, (e) $32,461; Rogers Bros. Co., Los Angeles, (d) $23,256, (e) $45,666; Bent Bros., Los Angeles, (d) $19,543, (e) $37,954; White & Gaskill, Long Beach, (d) $14,813, (e) $30,378; John D. Marsh, Bakersfield, (d) $15,270, (e) $30,409; M. Blumenkranz, Davis, (e) $41,416. Noted July 1.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 26, by the State Highway Commission, 515 Forum Bldg., for constructing roads in various counties. Austin B. Fletcher is State Highway Engr.

✚Salinas, Calif.—The contract for paving Alisal St. with macadam has been awarded to the GRANITE ROCK Co., at $20,268.

San Bruno, Calif.—Bids will soon be received by the City Trustees for constructing new streets and sewers, at an estimated cost of $31,000.

✚San Francisco, Calif.—The contract for improving 19th Ave. from Noriege to Quintate St. has been awarded to F. R. RITCHIE, at $23,255.

Visalia, Calif.—According to press reports bids will be received some time in August by the Supervisors of Tulare County for constructing a section of highway between Three Rivers and Lemon Cove.

INDUSTRIAL WORKS

Everett, Mass.—The New England Mfg. Co., Woburn, Mass., has purchased a site, and will build a benzol plant.

Greendale, Mass.—(Worcester post office)—Plans have been prepared by Lockwood, Green & Co., Arch., 60 Federal St., Boston, Mass., for the construction of a 120x200-ft. addition to the plant of the Heald Machine Co., New Bond St. J. N. Heald is Treas.

Marblehead, Mass.—The Parker Shoe Co. has purchased a site on Elm St. and will build a three-story factory in addition to its present plant.

New Bedford, Mass.—(Official)—Bids are being received by Lockwood Green & Co., Arch., 60 Federal St., Boston, Mass., for the construction of an eight-story, 108x158-ft., concrete warehouse for the Merchants' Terminal Warehouse Co. Noted July 15.

Quincy, Mass.—The Fore River Ship Building Corporation will build a two-story, 185x779-ft. brick and steel storage building on East Howard St. The estimated cost is $400,000.

Salem, Mass.—The Hydgrade Incandescent Lamp Co. will build a 52x202-ft. factory, with a 11x45-ft. wing, on Boston St.

✚Worcester, Mass.—F. W. MARK has been awarded the contract for the construction of a one-story garage for William H. Murray to cost $20,000. The L. W. Briggs Co. is Arch.

Hartford, Conn.—Bids are being received by Ford, Buck & Sheldon, Inc., Arch., for the construction of a one-story, 55x320-ft. factory on Homestead Ave. for the Hartford Special Machinery Co., 734 Main St.

Waterbury, Conn.—The Chase Metal Works has been granted a permit for the construction of a two-story, 60x200-ft., brick and steel addition to its factory on Thomaston Ave.

✚Auburn, N. Y.—The Firth Carpet Co. has awarded the contract for the construction of a one-story, 105x150-ft. addition to its plant to JOHN W. FERGUSON, Paterson, N. J. The estimated cost is $15,000.

Buffalo, N. Y.—The Danaby Packing Co. has been granted a permit for the construction of a cooling house at 25 Metcalfe St., to cost $20,000.

★Cortland, N. Y.—(Official)—Bids will be received until 4 p.m., July 27, at the office of the Armory Commission, 174 State St., Albany, N. Y., for the construction of a two-story reinforced-concrete storage house at the State Camp of Instruction.

New Hartford, N. Y.—The Sanquoit Toilet Paper Co. will build a 58x194-ft. and a 101x143-ft. manufacturing building, both three-stories. The estimated cost is $100,000. H. L. Meader, 178 Fifth Ave., New York, N. Y., is Arch.

New York, N. Y.—(Borough of Richmond)—Plans have been prepared by M. A. Cantor, Arch., 373 Fulton St (Borough of Brooklyn), for the construction of a one-story, 50x125-ft., brick storage building in Elm Park for the S. J. Linoleum Co.

✚Utica, N. Y.—H. R. BEEBE has been awarded the contract for the construction of a one-story, 77x180-ft. and 49x49-ft. machine shop on Gray Ave. for the Brunner Mfg. Co. Leo Brunner is Pres.

Bloomfield, N. J.—The International Arms & Fuse Co. will build a factory at Grove St. and Bloomfield Ave. Francisco & Jacobus, 200 Fifth Ave., New York, N. Y., is Arch.

✚Erie, Penn.—The Malleable Iron Co. has awarded to HENRY J. CONRATH, 439 East Sixth St., the contract for al-

terations to present buildings and the construction of a new structure at 12th and Cherry St., to cost $100,000.

Franklin, Penn.—The Citizens Traction Co. is receiving bids for the construction of a 52x150-ft. car-barn on Liberty St.

✚Marcus Hook, Penn.—(Official)—The contract has been awarded by Ballinger & Perrot, Arch., 17th and Arch St., Philadelphia, Penn., to WILLIAM PROVOST, JR., Chester, Penn., for the construction of a plant for the Viscose Co. Noted July 15.

✚Philadelphia, Penn.—(Official)—WILLIAM STEELE & SONS CO., 1600 Arch St., has been awarded the contract for the construction of a factory at Second and Erie Ave. for Thomas Potter & Sons Co. The estimated cost is $80,000. Noted July 15.

Philadelphia, Penn.—Kahn & Greenberg will build a seven-story, reinforced-concrete and brick manufacturing building at 24th and Market St.

Pittsburgh, Penn.—The contract will soon be awarded for the construction of a six-story, reinforced-concrete warehouse on Penn Ave. near Marbeau St., for the George S. Dougherty Co.

✚Wheatland, Penn.—The Knox Press & Welded Steel Co. has awarded the contract for the construction of a 130x700-ft. plant to the BLAW CONSTRUCTION CO., Pittsburgh, Penn.

Baltimore, Md.—Plans have been prepared by the G. E. Painter Co., Arch., for the construction of a 128x300-ft. addition to the plant of the Enamel & Novelty Co., Woodward and Clement St.

Hagerstown, Md.—(Official)—Bids are being received by Peuckert & Wunder, Arch., 310 Chestnut St., Philadelphia, Penn., for the construction of a two-story, 100x200 ft., reinforced-concrete factory for the Pangborn Corporation. Noted July 1 and 8.

✚Douglas, Ga.—The Douglas Compress Co. has awarded the contract to the EMPIRE CONSTRUCTION CO. for the construction of a compress building and sheds to cost approximately $40,000.

✚Anderson, S. C.—The GALLIVAN BUILDING CO., Greenville, S. C., has been awarded the contract for the construction of a one-story, 72x83-ft. mill and a one-story, 50x100-ft. storage warehouse for the Equinox Mills. The estimated cost is $15,000. J. E. Sirrine, Greenville, S. C., is Arch. and Engr.

Cleveland, Ohio—The Osborn Engineering Co., 740 Engineers Bldg., will receive bids for the construction of a five-story, 200x200-ft., brick and reinforced-concrete factory for the B. F. Goodrich Co., Akron, Ohio.

✚Uhrichsville, Ohio—(Official)—GEORGE J. BOCK, Coshocton, Ohio, has been awarded the contract for the construction of a $95,000 sewer plant for the United States Clay Products Co. S. L. Weaver is Arch. Noted July 15.

Cleveland, Ohio—Bids are being received for the construction of a brick and steel addition to the plant of the Chandler Motor Car Co., St. Clair Ave. and East 131st St. Ernest McGeorge, 855 Leader News Bldg., is Arch.

✚Hamilton, Ohio—THE CULLEN & VAUGHN CO. has been awarded the contract for building an addition to the plant of the Herring-Hall-Marvin Safe Co.

✚Painesville, Ohio—The Ohio Cast Stone Co. has awarded the contract to J. T. RICHARDS, Citizens Bldg., Cleveland, Ohio, for the construction of a 40x200-ft. plant with a 60x100-ft. wing, at the New York Central R.R. tracks near Forest St.

Reading, Ohio—The Tubular Products & Steel Works plans the construction of a plant.

Steubenville, Ohio—Plans are being revised by Peterson & Co., Arch., North Bldg., for the construction of a four-story warehouse for the Steubenville Stone Co., 435 Market St. Noted May 13.

✚Toledo, Ohio—The Atwood Automobile Co. has awarded the contract for the construction of a two-story, 100x175-ft., brick addition to its garage on Monroe St. to the SCHMIDT-HARDWOOD CO. Manfred M. Stophlet is Arch.

✚Fort Wayne, Ind.—The General Electric Co. of Indiana has awarded the contract for the construction of a five-story, 100x300-ft., brick warehouse to A. BENTLEY & SONS CO. Harris & Richards, Drexel Bldg., is Arch.

Detroit, Mich.—The Aluminum Casting Co. is receiving bids for the construction of a one-story, 120x160-ft., brick and reinforced-concrete machine shop, to cost $25,000. The Forest City Engineering Co., 512 Hippodrome Bldg., Cleveland, Ohio, is Arch.

Muskegon, Mich.—The Campbell, Wynant & Cannon Foundry Co. plans the construction of a 75x175-ft. addition to its plant at Sanford St. and McKinney Ave., Muskegon Heights.

Trumann, Ark.—The Trumann Cooperage Co. will build a $90,000 addition to its plant.

Salt Lake City, Utah—Plans have been prepared by Ware & Treganza, Arch., for the construction of a six-story, 50x115-ft. factory for the Purity Biscuit Co. Noted June 24.

Welland, Ont.—A 70x80-ft. addition will be built at the plant of the Canadian Billings Spencer Co. to cost, with equipment, $30,000.

FEDERAL GOVERNMENT WORK

★Dredging—Portland, Maine—Bids will be received until noon, Aug. 16, at the U. S. Engineer Office, Portland, for dredging in the St. Crois River.

✚Pattern Shop—Boston, Mass.—The contract has been awarded to the AMERICAN BRIDGE CO., Continental Bldg., Baltimore, Md., at $7375, for furnishing steel work for a pattern shop floor at the navy yard. Noted May 27.

Coal-Handling Equipment—Springfield, Mass.—Bids will be received until 2 p.m., Aug. 6, by the Commanding Officer, Springfield Arsenal, for furnishing and constructing coal storage and coal handling equipment.

★Rebuilding Basin Walls—Block Island, R. I.—Bids were received June 29 by Col. John Millis, Newport, for rebuilding basin walls and repairing the breakwaters at Block Island Harbor as follows: Estate of John Beattie, Leets Island, Conn., $9460 and E. S. Belden & Sons, Hartford, Conn., $9136 and $10,098. Noted June 3.

✚Building—New York, N. Y.—The contract has been awarded to the RIVERSIDE CONTRACTING CO., 39 Cortlandt St., New York, at $14,733, for constructing three one-story brick buildings at the Navy Yard, New York. Noted June 3.

✚★Breakwater—Oswego, N. Y.—The contract has been awarded H. S. KERBAUGH, Inc., Buffalo, at $78,606, for constructing a concrete superstructure on the outer breakwater at Oswego Harbor. Noted June 3.

✚Riprap—Philadelphia, Penn.—The contract has been awarded to the COAST & LAKES CONSTRUCTION CO., New York, N. Y., at $16,680 for constructing riprap in the Delaware River at Artificial Island. Noted June 22 and July 15.

Building—Washington, D. C.—Bids were received as follows, July 13, by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of the new building for the Interior Department, Washington: Conners Bros. Co., New York, N. Y., $1,804,524; Irwin & Leighton, Philadelphia, Penn., $1,684,000; Boyle-Robertson Construction Co., Washington, D. C., $1,690,000; P. F. Gormley Co., Washington, $1,676,970; John Griffith & Son Co., Chicago, Ill., $1,913,000; A. L. Guidone & Son, New York, N. Y., $1,733,313; John W. Brady & Co., New York, N. Y., $1,690,000; John H. Parker Co., New York, N. Y., $1,622,487; Thompson-Starrett Co., New York, $1,675,000, including mechanical equipment, $1,915,000; George A. Fuller Co., New York, N. Y., $1,645,000; Cramp & Co., Philadelphia, Penn., $1,732,655; John Gill & Co., Cleveland, Ohio, $1,849,000; William Dall Co., Cleveland, Ohio, $1,797,000; Bing & Bing Construction Co., New York, N. Y., $1,988,700, including mechanical equipment. Mechanical equipment, excluding elevators: John W. Danforth Co., Buffalo, N. Y., $300,000; Thompson-Starrett Co., New York, N. Y., $280,000; William Gordon Corporation, New York, N. Y., $237,213; W. G. Cornell Co., Washington, D. C., $247,748; Standard Engineering Co., Washington, D. C., $248,850; L. K. Comstock & Co., New York, N. Y., $294,304; Walker & Chambers, New York, N. Y., $335,890; Hanley-Casey Mechanical Equipment Co., Chicago, Ill., $278,000; Crook-Kries Co., Baltimore, Md., $306,296; Chris Irving Plumbing Co., Denver, Colo., $598,600; Fitzpatrick & Hoepfner, Columbus, Ohio, $288,671; Isador Freund, Washington, $289,466; Lord Electric Co., New York, N. Y., $248,842; G. A. Kees Domestic Engineering Co., St. Paul, Minn., $318,746; S. Faith & Co., Philadelphia, Penn., $280,771. Elevator equipment: A. B. See Electric Elevator Co., Washington, D. C., $53,600; Kaestner & Hecht, Chicago, Ill., $58,565; Ohio Elevator & Machine Co., Columbus, Ohio, $82,400; Otis Elevator Co., Washington, D. C., $49,849; Gurney Elevator Co., New York, N. Y., $59,200.

★Post Office—Palatka, Fla.—Bids will be received until 3 p.m., Aug. 27, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the U. S. post office at Palatka.

Levee—Vicksburg, Miss.—All bids received for 1,415,000 yd. of levee work at Ashbrook Neck levee have been rejected on account of being too high. Noted July 1.

✚Levee Work—Vicksburg, Miss.—The contract has been awarded by the U. S. Engineer Office to N. C. WILLIAMSON & CO., Vicksburg, at $0.1475 per yard for about 500,000 cu.yd. of levee work. Noted June 17.

Post Office—Opelika, Ala.—Bids were received July 14 by the Supervising Architect, Washington, D. C., for constructing a post office and court at Opelika as follows: J. S. Rogers Co., Moorestown, N. J., $101,990. Richardson Engineering and Construction Co., Bainbridge, Ga., $93,370. George W. Stiles Construction Co., Rookery Bldg., Chicago, Ill., $93,610. George Becking, Chattanooga, Tenn., $93,218. Algernon Blair, Montgomery, $85,971. Colonial Construction and Supply Co., Charlottesville, Va., $87,840. King Lumber Co., Charlottesville, Va., $98,900. Herman Construction Co., St. Louis, Mo., $105,000. Barnes Bros., Logansport, Ind., $100,000. George A. Clayton, Atlanta, Ga., $84,364. George A. Shaul, Seneca, Kan., $88,937. Westchester Engineering Co., White Plains, N. Y., $88,870. Burke's Construction Co., Hattiesburg, Miss., $94,973.99. W. H. Fissel & Co., New York, N. Y., $84,735. John G. Unkefer & Co., Minerva, Ohio, $94,315. Christ Kanzler & Sons, Evansville, Ind., $84,898. Thomas W. Cissel, Wooster, Ohio, $97,450. Callahan-Mandle Co., Chicago, Ill., $92,384.13. M. Yeager & Son, Danville, Ill., $93,586 and Dobbs & Wetmore, Meridian, Miss., $99,535. Noted June 10.

✚Riprap—Memphis, Tenn.—Contracts have been awarded to the ARNOLD STONE CO., Neely's Landing, Mo., at $4100 and C. C. HUTHMASHER, Grand Tower, Ill., at $9240 for riprap stone. Noted June 10.

✚Stone—Memphis, Tenn.—The contract has been awarded to the U. S. STONE CO., Little Rock, Ark., at $13,800, for furnishing stone. Noted Jnne 10.

Machine Tools—Rock Island, Ill.—Bids will be received until July 26 by the Commanding Officer, Rock Island Arsenal, for furnishing machine tools under Proposals 7, 20, 31 and 33.

Machine Tools—Rock Island, Ill.—Bids will be received until July 30 by the Commanding Officer, Rock Island Arsenal, under Proposals 17, 18, 19, 25 and 26 for machine tools.

★Reclamation Work—St. Ignatius, Mont.—Bids will be received until 3 p.m., Aug. 18, by the U. S. Reclamation Service, St. Ignatius, for constructing laterals and sublaterals on the Flathead project. A. P. Davis is Ch. Engr.

Post Office—Galveston, Tex.—Bids were received July 14 by the Supervising Architect, Washington, D. C., for remodeling the U. S. post office and custom house as follows: M. C. Bowden, Galveston, $7963.50. Frank M. Weakley, Portsmouth, Va., $8349. Dieter & Wenzel Construction Co., Wichita, Kan., $8273. O. E. Fischer Building Co., Galveston, $8985.75.

Radio Station Buildings—Isabel, Tex.—Bids will be received until 11 a.m., Aug. 28, by H. R. Stanford, Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing buildings at the radio station.

★**Post Office**—Grand Junction, Colo.—Bids will be received until 3 p.m., Aug. 24, by James A. Wetmore, Act. Superv. Arch., Washington, D. C., for constructing the U. S. post office at Grand Junction.

Miscellaneous Supplies—Panama — Bids will be received until 10:30 a.m., Aug. 2, by Maj. F. G. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Aug. 6, by Maj. F. G. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

★**Light Station**—Navassa Island, West Indies—Bids will be received until 2 p.m., Sept. 30, by the Bureau of Lighthouses, Dept. of Commerce, Washington, D. C., for constructing the Navassa Island light station.

MISCELLANEOUS

Enlarging Basin—Boston, Mass.—The following bids were received by the Harbor and Land Commissioners on July 14, for enlarging the anchorage basin in Lynn Harbor. J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, R. I., 29.4c. per cu.yd.; $10 per cu.yd. rock; Maryland Dredging & Contracting Co., Baltimore, Md., 30.9c.; $8; Bay State Dredging Co., Ltd., 247 Atlantic Ave., Boston, Mass., 34c.; $10. About 11,700 cu.yd. of material will be removed. William I. Williams, State House, Boston, is Ch. Engr.

Dredging—Boston, Mass.—Bids will be received until July 26 by the Metropolitan Park Commissioner for 15,000 cu.yd. of dredging in Aberjoria River. John R. Bablin, 14 Beacon St., is Ch. Engr.

Dredging—Boston, Mass.—Bids will be received until July 28 by the State Harbor and Land Commission for 57,000 cu.yd. of dredging in Wellfleet Harbor. William F. Williams, State House, Boston, is Ch. Engr.

Dock—Buffalo, N. Y.—Bids will soon be received by the New York Central R.R. for constructing a reinforced-concrete dock on the Buffalo River adjoining the dock of the Eastern Grain & Elevator Co. The estimated cost is $30,000.

Dredging—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received by R. A. C. Smith, Comr., Docks and Ferries, for dredging in mill basin Jamaica Bay, from the Atlantic Gulf & Pacific Co., No. 13 Park Row, at 0.05c. per cu.yd., and the Maryland Dredging Co., at 0.10c. Noted July 15.

✚**Pier**—New York, N. Y.—(Borough of Brooklyn) — (Official)—The contract for building the pier at the foot of East 30th St. has been awarded to W. B. SEAVER, INC., Grand Central Terminal. Noted June 10 and 24.

Pier—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received by R. A. C. Smith, Comr., Docks and Ferries for building a pier near the foot of 35th St. (Borough of Brooklyn), Thomas H. Kerbaugh, Inc., $363,091; Foundation Co., $349,777; Phœnix Construction Co., $347,897; Stillman, Delahanty & Ferries Co., $333,878; G. B. Spearin, 90 West St., New York, $310,201; Henry Steers, $342,866.

Subway—New York, N. Y.—(Borough of Brooklyn)—The following are the unofficial totals of the bids received by the Public Service Commission for the construction of Section No. 1 of Route No. 49, a part of the Culver Rapid Transit R.R.: Post & McCord, Inc., 103 Park Ave., New York, $877,959; Phœnix Bridge Co., $894,000; A. L. Guidone & Son, Inc., $903,000; Cooper & Evans Co., $914,732; Rodgers & Hagerty, Inc., $924,933; Frawley-Kaufman Contracting Co., Inc., $926,000; Connex Engineering & Construction Co., $930,000; Oscar Daniels Co., $931,740; McClintic-Marshall Co., $947,358; Underpinning & Foundation Co., $947,410; Ft. Pitt Bridge Works, $959,000; Snare & Triest, Inc., $971,000. Noted July 1.

✚**Razing Buildings**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the wrecking of eight buildings has been awarded to JACOB SCHUMER at his offer of $2387 to the Public Service Commission for the privilege. The contractor will receive all material used in the construction of these buildings. Noted July 8.

★**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received by the Public Service Commission for track laying on the New Eutrcht Ave. elevated line: Ward & Tully, Inc., $71,355; Joseph A. McElroy, $75,183; W. F. Jordan, $78,525; Post & McCord, $82,639; Degnon Contracting Co., $85,105; Snare & Triest Co., $94,864; Connex Engineering & Construction Co., $99,414; Thomas Crimmins Contracting Co., $99,564; Jobson-Gifford Co., $100,516; Charles Cooper, $102,587; Holbrook, Cabot & Rollins Corporation and George W. McNulty, $103,781; Max Raymond, $111,616; Joseph J. Klein, $116,436; James S. Frazer, $118,217. Noted June 24.

Lumber—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until July 27 for furnishing and delivering lumber for the Departments of Charities, Water Supply, Gas and Electricity, Fire and Bellevue and Allied Hospitals.

Cement, Sand and Stone—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. H. C. Smith, Comr., Docks and Ferries, Pier A, Battery Pl., until noon, July 28, for furnishing and delivering cement, sand and broken stone.

Automobile Runabouts—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Robert Adamson, Fire Comr., Municipal Bldg., New York, until 10:30 a.m., July 26, for furnishing and delivering 20 automobile runabouts.

Open-Hearth Rails—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received by the Public Service Commission for furnishing and supplying open-hearth rails for use on the construction of the Rapid Transit Railroads from the Bethelem Steel Products Co., at $1,202,126 and Lackawana Steel Co., $1,202,126. Noted July 8.

Drainage—Garfield, N. J.—The Board of Chosen Freeholders, Hackensack, N. J., has granted an appropriation of $12,000 to the borough of Garfield, for drainage and changing the course of the brook in the borough.

Cement, Traprock, Etc.—Jersey City, N. J.—Bids will be received until 2 p.m., July 27, by the Hudson County Park Commission, Jersey City, for 600 bbl. Alpha portland cement, 450 cu.yd. broken trap rock, 300 cu.yd. Cow Bay sand and 25 cu.yd. of coarse trap rock screenings. Walter G. Morehead is Secy.

Cable—Jersey City, N. J.—Bids will be received until 2 p.m., July 27, by the Hudson County Park Commission, Jersey City, for furnishing 18,000 ft. of No. 8, steel-armored, 2500-volt park cable, delivered at Bayonne Park.

Pier—Chester, Penn.—The Philadelphia Suburban Gas & Electric Co. plans to erect a double deck pier at the foot of Norris St.

Elevated Railway—Philadelphia, Penn. — (Official) — Bids will soon be received by A. M. Taylor, Dir., Dept. of City Transit, for the construction of concrete column foundations and piers for about 26,000 lin.ft. of elevated railway in Front St., Kensington Ave. and Frankford Ave.

Piers—Philadelphia, Penn.—The next improvement to be undertaken by the Department of Wharves, Docks and Ferries, and the most important one yet projected from the standpoint of the modernization and expansion of the port, is the Moyamensing Pier Group planned to be located along the Delaware River waterfront between McKean and Hoyt Sts. South Wharves. This will consist of a group of 10 or 12 long, wide piers, ranging from 250 ft. in width by 900 ft. in length, to 300 ft. in width by 1200 ft. in length, with docks between them of about the same width as the piers. The first pier of the group will be at the foot of McKean St. and will be 250 ft. wide by 900 ft. long. It will be two stories high, provided with electrical lighting and mechanical freight handling equipment and will afford berthing space for four steamers at one time. Sunken car tracks will run on the pier for its whole length, and ample car storage space will be provided outside of the pier between its entrance and Delaware Ave. to guarantee prompt shifting service of cars in and out. Money is available for starting the construction of the McKean St. pier and work on the substructure will be started this summer. The completion of this first pier will be followed by the gradual carrying-out of the rest of the general plan for this section of the waterfront. Each one of these piers, with its equipment, is estimated to cost about $1,500,000, including property damages. The bids for the dredging of the site of the first of these piers follow that item. John Meigs is Dir., Dept. Wharves, Docks and Ferries. Noted June 10 and 24.

Dredging—Philadelphia, Penn.—Only two bids were receivd for dredging and preparing the sites for the Moyamensing piers at the foot of McKean St., Delaware River. The specifications call for the removal of 400,000 cu.yd. of material. The bidders were required to submit two separate prices, the first item (a) calling for dredging and depositing the material removed above high water mark in the city limits, the second (b) for dredging and delivering the material in front of the municipal rehandling machine at Cannon Ball Farm. The bidders were: American Dredging Co., (a) 14¼c., (b) 10¼c.; Bowers, Southern & Co., (a) 19c., (b) 14½c. Noted June 24.

Pier—Philadelphia, Penn.—Bids will be received by John Meigs, Dir., Department of Wharves, Docks and Ferries, until noon, Aug. 9, for constructing a pier in the Delaware River, between McKean St. and Snyder Ave. Noted June 24.

Bulkheads and Dredging—Philadelphia, Penn.—The City Council has granted the Dock Department permission to spend $67,000 for bulkheading the Schuylkill River and $50,000 for deepening the Delaware River channel.

✚**Channel**—Philadelphia, Penn.—The contract for the construction of a channel in the Delaware River, in the upper end of Philadelphia Harbor, has been awarded to the MARYLAND DREDGING & CONTRACTING CO., Baltimore, Md., at $199,200. Noted July 15.

River Improvement—Philadelphia, Penn.—The City Council has passed an ordinance for an allotment of $75,000 state funds for deepening and widening the ship channel between lower end of Cramp's shipyard and Port Richmond export pier, south of Allegheny Ave.

★**Plaza**—Philadelphia, Penn.—The lowest bid received by the Department of Public Works for constructing the South Broad St. plaza was from Edwin H. Vare, Philadelphia, at $123,565. Noted June 24.

✚**Tunnel**—Pittsburgh, Penn.—The contract for the construction of the Neeld tunnel to the South Hills, has been awarded to BOOTH & FLINN, LTD., 1942, Forbes St., Pittsburgh, at $1,347,018. The tunnel will be 4816, ft. long and 33 ft. wide of monolithic concrete. Noted May 27.

✚**Bank Protection**—Augusta, Ga.—The contract for repairs to bank protection on the Savannah River has been awarded to the SIMONS-MAYRANT CO., Charleston, S. C., at $17,275. Noted July 8.

✚**Drainage**—Bartow, Fla.—The contract for constructing about 142 miles of drainage ditches has been awarded by the Peace Creek Drainage District, to A. V. WILLS & SONS, Pittsfield, Ill., at 8.5c. per cu.yd. Noted June 17.

Levee—Greenville, Miss.—Bids will be received by W. L. Thompson, Ch. Engr., Mississippi Levee Commissioners, until Aug. 17 for levee work in Issaquena County. The estimated cost is $100,000.

Drainage—Lake Charles, La.—The Board of Commissioners of Sulphur Drainage District No. 2 have awarded the contract for excavating 180,000 cu.yd. to GRAY & ALEXANDER at about $16,000.

Wharves—New Orleans, La. — Bids will be received by Ernest M. Loeb, Pres. of Comrs., New Orleans Bldg., until 2 p.m., Aug. 11, for rebuilding the Julia St. wharf, and for extensions to Girod St. wharf. Plans may be obtained of J. Devereux O'Reilly, Engr., New Orleans Bldg., New Orleans. leans.

Speedway—New Orleans, La.—According to press reports an automobile speedway is to be constructed in New Orleans at a cost of $500,000. H. S. Moore and S. H. Lindsay, Chicago, are representing the owners.

✚**Drainage**—Sulphur, La.—The Board of Commissioners of Sulphur Drainage District No. 2 has awarded the contract for the excavation of 180,000 cu.yd. of earth material in the district to GRAY & ALEXANDER, at $16,000.

Motor Truck—Cincinnati, Ohio—Bids will be received by Ernst Von Bargen, City Pur. Agt., City Hall, for furnishing one two-ton motor truck with special body.

Motor Apparatus—Cleveland, Ohio—Bids will be received by A. R. Callow, Comr. Purchases and Supplies, City Hall, until noon, July 29, for furnishing steam tractor fire engine, auto police patrol, and one steel hull for the fire boat, "Clevelander."

Motor Apparatus—Columbus, Ohio—Bids will be received by B. L. Bargar, Dir. of Pub. Safety, City Hall, until noon, Aug. 6, for furnishing two motor driven patrol vehicles for the police department.

✚**Piers and Coalbins**—Youngstown, Ohio—The Lake Erie & Eastern Ry. has awarded the contract for the construction of nine piers and eight coal bins at Pike St. to BYERS & CHAIG, New Castle, at $15,000.

Levee—East St. Louis, Ill.—According to press reports the lowest bid submitted for the construction of an earth levee was from John & Patrick Keeley, at 36c. per cu.yd. Noted June 24.

Drainage—Grand View, Wis.—It is reported that the White River Drainage District has been organized for the purpose of draining 20,000 acres of swamp land. Adolph Habelt, Grand View ,is interested.

Drainage—Urbana, Ill.—Bids will be received by the County Clerk until 10 a.m., July 29, for the construction work in District No. 17.

✚**Ditches**—Three Lakes, Wis.—The contract for constructing about 11 miles of open ditches has been awarded to SCHULTZ & BIECY, Clarion, Iowa. Noted June 3.

Ditches—Marshall, Minn.—Bids will be received by E. S. Shepard, County Audr., until July 26 for constructing Ditches Nos. 13, 15 and 16. The estimated cost is about $82,000.

Ditches—Slayton, Minn.—Bids will be received until July 27 by E. V. O'Brien, County Audr., for constructing the following ditches: No. 9, length, 28,285 ft.; cost, $9015; No. 9A, length, 43,800 ft.; cost, $12,250; No. 45, length, 16,000 ft.; cost, $4360; No. 5, length, 23,835 ft.; cost, $8563.

Elimination of Grade Crossing—Kansas City, Mo.—The contract for the construction of the subway under the Missouri Pacific Ry. tracks on Van Horn boulevard has been awarded to KIT COLYER at $26,000. Noted Mar. 4.

✚**Drainage**—Pine Bluff, Ark.—The contract for constructing about 13 miles of drainage canals in District No. 5 has been awarded to McWILLIAMS BROS., Memphis, Tenn., at about $28,000. Noted Apr. 29.

Drainage—North Yakima, Wash.—It is reported that bids will be received by Charles E. Barrett, County Audr., until July 31 for constructing a system of open and closed drains in Drainage Improvement District No. 25.

Motor Fire Apparatus—Seattle, Wash.—Bids will soon be received by the Board of Public Works for furnishing motor fire apparatus.

Improvements to Telephone System—Portland, Ore.—The Pacific Telephone & Telegraph Co., Portland, will spend $19,000 for improvements to its system.

Mausoleum—Glendora, Calif.—The Oakdale Cemetery Co. plans to erect a reinforced-concrete mausoleum in Oakdale Cemetery. The estimated cost is $75,000. Lyman Farwell, Story Bldg., Los Angeles, is Arch.

✚**Oil Tanks**—Martinez, Calif.—The Shell Refinery, Los Angeles, has awarded the contract for the construction of 26 oil tanks to the LLEWELLYN IRON WORKS, Los Angeles, at $250,000.

✚**Pier**—San Francisco, Calif.—The Board of State Harbor Commissioners has awarded a contract for the repairing of Pier No. 11 to the HEALY-TIBBITTS CONSTRUCTION CO. at $14.281. Noted July 15.

✚**Cable and Alarm Boxes**—Montreal, Que.—The city has awarded the contract for furnishing cable and alarm boxes to the NORTHERN ELECTRIC CO., 814 Notre Dame St., West, Montreal, at $48,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Andover, Mass.—Plans are being prepared by Charles R. Greco, 8 Beacon St., for the construction of a parochial school to cost $50,000.

Boston, Mass.—A nine-story, 92x105-ft., brick apartment block will be built for Snider & Druker, 18 Tremont St. Clapp & Wihtemore, 20 Beacon St., is Arch.

✚**Boston, Mass.**—J. EDWARD McLEAN, 10 Faneuil Hall Sq., has been awarded the contract for the construction of a two-story addition to Boston College. Kendall, Taylor & Co., 93 Federal St., is Arch.

✚**Burlington, Mass.**—The contract for the construction of a three-story, 40x75-ft. town hall has been awarded to CUSTANCE BROS., Lexington, Mass. Loring & Phipps, 53 State St., Boston, Mass., is Arch. The estimated cost is $45,000.

Jamaica Plain, Mass.—(Boston post office)—Yervant Kayanjian will build a $50,000 brick store and office building. H. S. Demoorjani, State Mutual Bldg., Worcester, Mass., is Arch.

✚**North Easton, Mass.**—The contract for the construction of a $70,000 brick school has been awarded to J. P. HURLEY, Marlboro, Mass.

Springfield, Mass.—The Cohasset Hotel Co. has been incorporated with a capital of $600,000 and will build a hotel at the corner of Dwight and Worthington St. Clifford A. Tinker is Arch.

Springfield, Mass.—Albert Karp and F. E. Bidwell will build an $85,000 hotel. B. Hammett Seabury is Arch.

Waltham, Mass.—(Official)—Bids will be received until Aug. 15 by James F. Monaghan, Arch., Room 401, 79 Milk St., Boston, Mass., for the construction of a one-story, 65x195-ft. brick church for St. Charles Congregation. The estimated cost is $80,000. Noted July 1.

Albany, N. Y.—The St. Vincent de Paul's Congregation plans to construct a three-story convent on Morris St. near Partridge St. Estimated cost, $50,000. The construction of a parochial school on Madison Ave. and Ontario St. is also contemplated. Estimated cost, $175,000. Noted Apr. 15.

Allegany, N. Y.—The Trustees of St. Bonaventure College plan to construct a building. Work will be started in the fall. Estimated cost, $100,000.

Buffalo, N. Y.—The Cleveland-Buffalo Transit Co., 1290 West 11th St., Cleveland, Ohio, plans to construct a freight and passenger terminal building at Michigan Ave. and the Buffalo River. M. Newman is Pres.

Buffalo, N. Y.—The Board of Education plans to construct a school on Walden Ave. between St. Louis Ave. and Moselle St. The estimated cost is $50,000.

✚**Harriman, N. Y.**—The JERSEY CITY CONSTRUCTION CO., 75 Montgomery St., Jersey City, N. J., has been awarded the contract for the construction of a high and grade school on Main St. Estimated cost, $40,000. Noted under Harrison, N. J., July 8.

New York, N. Y.—(Borough of Manhattan)—Herman Lee Meader, Arch., 2 West 33rd St., is preparing plans for the construction of a 12-story store and loft building at 7 East 39th St. and through to 10 East 38th St., adjoining the Craftsman Bldg. The estimated cost is $250,000. Leslie R. Palmer, 68 William St., is interested. Noted June 17.

New York, N. Y.—(Borough of Manhattan)—Abraham Lincoln Levin, 103 Park Ave., has purchased a site on 86th St., between Columbus and Amsterdam Ave., upon which to construct a 12-story fireproof apartment house. The estimated cost is $700,000.

New York, N. Y.—(Borough of Manhattan)—George Backer, 56 West 45th St., has purchased a site at Madison Ave. from 31st to 32d St. upon which to construct a 16-story mercantile building.

New York, N. Y.—(Borough of Manhattan)—Neville & Bagge, Arch., 105 West 40th St., is preparing plans for the construction of a 12-story, 100x110-ft. apartment house on West End Ave. and 99th St. for the McMorrow Engineering & Construction Co., 271 West 125th St. The estimated cost is $400,000. Noted June 10.

New York, N. Y.—(Borough of Manhattan)—Bids are being received by Katherine B. Davis, Comr., Dept. of Correction, Municipal Bldg., New York, for the construction of a one-story concrete and brick disciplinary building on the east side of Shore Drive near Main St. on Rikers Island. F. B. & A. Ware, 1170 Broadway, is Arch. The estimated cost is $64,000.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Arthur Loomis Harmon, Arch., 3 West 29th St., for the construction of a 16-story loft building at Madison Ave. and 38th St., on the site of the Havemeyer mansion, for August Heckscher, 576 Fifth Ave. The estimated cost is $550,000. Noted June 10.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received for the construction of additions and alterations to Public School No. 3 on Grove St. between Hudson and Bedford St., as follows: J. Kresse Co., 52 Vanderbilt Ave., $43,400; H. C. Stowe Construction Co., Academy and Vermylia Ave., $49,746; T. A. Clarke Co., 122 Livingston St., Brooklyn, $57,700; William H. Egan, Lexington Ave. and 125th St., $59,959; Frymier & Hanna Co., 25 West 45th St., $54,468; John J. Hearn Construction Co., 69 West 46th St., $51,541; H. H. Vought & Co., Grand Central Terminal, $58,862; Lawrence J. Rice, 42nd St. and Lexington Ave., $52,993; Frank J. Felgenhauer Co., Inc., 4 Court Sq., Brooklyn, $51,873. Noted July 1.

Onondago, N. Y.—Bids recently received by Lewis F. Pilcher, State Arch., Capitol, Albany, for the constructon of a school and teacher's cottage at the Onondago Indian Reservation have been rejected. New bids will soon be received.

Port Chester, N. Y.—Bids will be received until 8 p.m., July 30, by Clarence D. Camp, Clk., Bd. of Education, for the construction of a three-story high school on Irving Ave. The estimated cost is $120,000. Hewitt & Bottomley, 597 Fifth Ave., New York, is Arch. Noted May 13 and July 1.

Rochester, N. Y.—Maurer & Mills, Arch., 1338 Schofield Bldg., is preparing plans for the construction of a church for the Dewey Avenue Presbyterian Church. Estimated cost, $55,000.

Rochester, N. Y.—Bids are being received by W. J. Brackett, Arch., Power Blk., for the construction of a three-story Labor Temple at North Fitzhugh and Church St. for the Labor Temple Association, Arcade Bldg. The estimated cost is $90,000. Noted June 17.

Syracuse, N. Y.—Abraham Rubenstein has purchased a site on West Fayette St. between South Clinton and South Franklin St. upon which to construct a store and apartment building, to cost about $50,000.

✚**Syracuse, N. Y.**—(Official)—The PHELAN ENGINEERING & CONSTRUCTION CO., Second National Bldg., Hoboken, N. J., at $290,778 has been awarded the contract for the construction of the Vocational High School. Noted June 24 and July 15.

Valley Stream, N. Y.—Plans are being prepared by Ludlow & Peabody, Arch., 101 Park Ave., New York, for the construction of a two-story home for wayward girls at the Wayside Home, 356 Bridge St., Brooklyn. Mrs. Homer A. Lattin is Pres.

White Plains, N. Y.—Bids will be received about Aug. 1 by the Westchester County Building Commission for the construction of a county penitentiary and workhouse at East View. The estimated cost is $500,000. Alfred Hopkins, Arch., 101 Park Ave., New York, prepared the plans. Noted May 20.

Burlington, N. J.—C. W. Oakley & Son, Arch., 280 North Broad St., is preparing plans for the construction of a building for the New Jersey Grand Lodge F. and A. M. The estimated cost is $40,000. T. B. Townley, Elizabeth, is Secy.

Camden, N. J.—Plans are being prepared by Moffett & Stewart, Arch., for the construction of a five-story office building on Market St. for the John H. Heaton Piano Co. The estimated cost is $70,000.

Camden, N. J.—Plans are being prepared by Custer & Seltzer, Arch., for the construction of a hotel. The estimated cost is $65,000.

Jersey City, N. J.—On July 12 the city sold $439,000 in bonds to be used for the construction of schools in Jersey City.

Newark, N. J.—Plans have been prepared by Kallich & Lubroth, Arch., 215 Montague St., Brooklyn, N. Y., for the construction of a four-story apartment house on Mt. Pleasant Ave. near Oriental St. for Joseph Moshkowitz, 5305 Fifth Ave., Brooklyn, N. Y. Estimated cost, $100,000.

Paterson, N. J.—Plans have been approved by the congregation of the Church of the Covenant for the construction of an edifice at Broadway and East 27th St. The estimated cost is $100,000. Lee & Hewitt, 1123 Broadway, New York, N. Y. is Arch. Noted May 27.

Weehawken, N. J.—Hyman Rosenthal, Arch., 800 Broad St., Newark, has prepared plans for the construction of a five-story, 117x125-ft. apartment house at Liberty St. and Hudson County Blvd. for S. M. Adelman, 229 Bergenline Ave., Union. The estimated cost is $100,000.

Ben Avon, Penn.—(Allegheny post office)—The Odd Fellows plan to construct an orphanage at Ben Avon to cost about $50,000.

Dormont, Penn.—Plans have been prepared by J. A. Long & Son, Benedum-Trees Bldg., Pittsburgh, for the construction of a three-story, 65x100-ft. store and lodge building for the South Hills Association. Estimated cost, $55,000. Frank Ryman is Pres. Noted June 10.

Lansford, Penn.—(Official)—The time for receiving bids has been extended from Aug. 2 to Aug. 9 for the construction of a fireproof high school. John T. Simpson, 1224 Essex Bldg., Newark, N. J., and Tooker & Marsh, 101 Park Ave., New York, N. Y., are Assoc. Archs. and Engrs. The estimated cost is $150,000.

Muncy, Penn.—Bids were received June 30 by Frank Smith, Secy. of Comn., Harrisburg, for the construction of four cottages and an administration building for the industrial home at Muncy, as follows: Loose & Dothead, Philadelphia, $224,250; George A. Fuller Co., Philadelphia, $199,150; Shamokin Lumber & Mfg. Co., $205,000; Henry E. Baton, Philadelphia, $203,597; George Borst, Philadelphia, $221,882; F. Rowe Searing, Philadelphia, $204,890; F. H. Keyser & Co., Pottstown, $209,700; Ketcham & McQuade, Philadelphia, $211,420; Metzger & Fisher, Philadelphia, $178,500; Conners Bros. Co., Lowell, Mass., $194,450; Samuel L. Larivee, Williamsport, $207,000; Edward Fay & Son, Philadelphia, $183,930; James V. Bennett & Co., Williamsport, $218,716; Beard Construction Co., Reading, $222,236. Noted June 24.

Oxford, Penn.—Plans have been prepared by Roscoe C. Tindall, Arch., Equitable Bldg., Wilmington, Del., for the construction of a two-story theater for Joseph G. Crowl. The estimated cost is $40,000.

Philadelphia, Penn.—The Pennsylvania R.R. has had plans prepared for the construction of an immigrant station at Washington Ave. and the Delaware River. The estimated cost is $70,000. Alex. C. Shand is Ch. Engr.

Philadelphia, Penn.—The lowest bid received for the construction of a school at Sixth St. and Hunting Park Ave. was submitted by Wilbert Beaumont, at $52,735.

✚**Philadelphia, Penn.**—The contract for the construction of additions and alterations to the office and store building at Juniper and Chestnut St. for the Weighman Estate has been awarded to JAMES S. TALLEY, 1931 Market St., Philadelphia. Estimated cost is $60,000.

Philadelphia, Penn.—Bids will soon be received for the construction of a six-story, 65x188-ft. loft building at 315-19 Arch St. Sauer & Hahn, 1112 Chestnut St., is Arch. Noted June 10.

Philadelphia, Penn.—Harris & Rush, Arch., 1001 Chestnut St., is preparing plans for the construction of a four-story fireproof building at 1607-15 Christian St. for the Y. M. C. A.

Philadelphia, Penn.—Plans are being prepared by Frederick Webber, Arch., Morris Bldg., for the construction of a 12-story apartment house at 235-45 South 15th and Locust St. The estimated cost is $800,000. Noted Mar. 11.

✚**Philadelphia, Penn.**—(Official)—WILLIAM R. DOUGHERTY, 1608 Sansom St., Philadelphia, at $68,229 has been awarded the contract for the construction of a school at Second, Pike and Sanger St. Noted July 1.

Philadelphia, Penn.—The Franklin National Bank, Broad and Chestnut St., plans to construct a three-story bank and a 20-story office building at 1416-18 Chestnut St. Estimated cost, $1,000,000. McKim, Mead & White, 101 Park Ave., New York, N. Y., is Arch.

✚**Philadelphia, Penn.**—(Official)—CRAMP & CO., Denckla Bldg., Philadelphia, at $278,056 has been awarded the contract for the construction of a three-story school at 65th St. and Lime Kiln Pike, East Germantown. Noted July 1, 18 and 15.

✚**Pittsburgh, Penn.**—GOLDEN & CRICK has been awarded the contract for the construction of a brick dormitory and dining-room on Troy Hill Rd., North Side, for St. Joseph's Orpham Asylum. The estimated cost is $45,000.

Pittsburgh, Penn.—Arrangements are under way to construct a laboratory at Sandusky St. and Parkway, North Side, to be operated in connection with the Allegheny General Hospital. The estimated cost is $400,000.

Pittsburgh, Penn.—Plans are being prepared by John T. Comes, Arch., Renshaw Bldg., for the construction of a church at Fifth Ave. and Robinson St. for St. Agnes congregation. The estimated cost is $80,000. Noted June 24.

Pittsburgh, Penn.—Plans have been prepared by John T. Comes and John E. Kauser, Archs., Renshaw Bldg., for the construction of a church on Mission St. for St. Joseph's congregation. The estimated cost is $40,000.

Baltimore, Md.—Joseph Evans Sperry, Arch., 409 Calvert Bldg., is preparing plans for the construction of a three-story engineering building, for the Johns Hopkins University, at Homewood. Estimated cost, $150,000.

Baltimore, Md.—Plans are being prepared by Archer & Allen, Arch., for the construction of a mechanical laboratory addition to Johns Hopkins Medical School, on Monument St. Estimated cost, $50,000.

Washington, D. C.—The American Federation of Labor will construct a building to cost about $150,000.

Washington, D. C.—A. M. Schneider Co., Arch., have prepared plans for the construction of a six-story, 100x200-ft. apartment house at Adams Mill and Quarry Rd., N. W., for Harry Wardman. The estimated cost is $500,000.

Washington, D. C.—Plans have been prepared by Hunter & Bell, Arch., 1421 H St., N. W., for the construction of a seven-story apartment house at 2129 Connecticut Ave., N. W., for Bates Warren. The estimated cost is $400,000. Noted Jan. 14.

✚**Petersburg, Va.**—The contract for the construction of a hotel on West Tabb St. for the Petersburg Investment Corporation has been awarded to the FULTON BRICK WORKS, Richmond, at $21,000. Noted Apr. 15.

Staunton, Va.—The First Presbyterian Church plans to construct a school to cost about $50,000.

Madison, W. Va.—Bids will be received until Aug. 10 by Elmer Nelson, Clk. of Boone County Court, for the construction of a courthouse. H. Rus Warne, Charleston, is Arch.

Moundsville, W. Va.—The congregation of St. Francis Xavier will construct a church. The estimated cost is $75,000.

Parkersburg, W. Va.—The Chamber of Commerce has introduced a plan to finance the construction of a market house, convention hall and armory. Estimated cost, $60,000.

Parkersburg, W. Va.—Bids will be received about Aug. 11 for the construction of a high school. Frank L. Packard, 1212 Hayden Bldg., Columbus, Ohio, is Arch. Noted Apr. 15.

Triadelphia, W. Va.—Bonds to the amount of $125,000 have been sold by the Board of Education. The proceeds will be used for the construction of a school. S. S. Jacobs is Dist. Supt.

Wheeling, W. Va.—The Commissioners of Ohio County will construct an infirmary. The estimated cost is $100,000.

Durham, N. C.—The Board of County Commissioners plans to construct a courthouse on the site of the Arcade Theater and the Rigsbee property. The estimated cost is $150,000. George W. Woodward is City Clk.

Wilmington, N. C.—J. H. Hinton plans to construct a 14-story hotel on the Orton property.

Augusta, Ga.—According to press reports a building will be constructed to be known as the Georgia State Hospital for Cripples. The estimated cost is $100,000. Minnie B. Allyn is interested.

Macon, Ga.—Bids will be received about Sept. 1 for the construction of a union station for the Southern Ry. and the Central of Georgia Ry. The estimated cost is $800,000. Noted Apr. 1.

Palm Beach, Fla.—The East Coast Club Co. plans to construct a clubhouse and other improvements, to cost about $300,000.

Seabreeze, Fla.—(Official)—Bids will be received about Sept. 15 by the Board of Public Instruction of the County of Volusia for the construction of a two-story school. The estimated cost is $45,000. Mark & Sheftall, 210 Clark Bldg., Jacksonville, is Arch. Noted July 8.

Meridan, Miss.—The East End Methodist Congregation plans to construct a church to cost about $50,000. William B. Hogg is Pastor.

✚**Vicksburg, Miss.**—H. H. HAVIS, Vicksburg, has been awarded the contract for the construction of a telephone exchange building at Crawford St. and Monroe Blvd. for the Cumberland Telephone Co. Estimated cost, $40,000.

Alexandria, La.—The State Board of Health is planning to construct a tuberculosis hospital 10 miles south of Alexandria.

Lebanon, Tenn.—The members of the F. and A. M. contemplate the construction of an office and lodge building. The estimated cost is $75,000.

Memphis, Tenn.—Bids have been received by C. C. Ogilvie, Supt. of the Goodwyn Institute, and are being considered by the Commissioners, for the construction of a seven-story addition and improvements to the present auditorium. Estimated cost, $125,000. Noted June 24.

✚**Morristown, Tenn.**—WILLIAM H. BOSTWICK, Johnson City, has been awarded the contract for the construction of a hotel on Main St. The estimated cost is $40,000. J. C. Mitchell and L. V. Rader are interested.

Lexington, Ky.—The Building Committee of the Broadway Christian Church plans to construct an edifice. The estimated cost is $75,000.

Akron, Ohio—Bids will be received until Aug. 1 by B. L. Bargar, Secy., State Armory Bd., New Hayden Bldg., Columbus, for the construction of an armory and auditorium on South High St. The estimated cost is $165,000. Harpster & Bliss, Nantucket Bldg., is Arch. Noted June 10 and July 8.

Canton, Ohio—Frank A. Luther plans to construct a two-story store and office building on Second St., N. E. The estimated cost is $40,000.

Cincinnati, Ohio—Bids will soon be received by the Board of Education for the construction of the East Hills High School. The estimated cost is $1,000,000. Garber & Woodward is Arch. Noted Mar. 4.

Cincinnati, Ohio—The Board of Education will construct two school buildings in the West End of Cincinnati. Charles Handman is Business Mgr.

Cincinnati, Ohio—Harry Hake, Arch., Bell Telephone Bldg., is preparing plans for the construction of an office building at Court and Main St. for the Title Guarantee & Trust Co.

Cleveland, Ohio—M. Schallhiem, 8021 Cedar Ave., plans the construction of a commercial building at Oakview Ave. and Eddry Rd. Estimated cost, $50,000.

Cleveland, Ohio—Plans have been prepared by Koehl & Rensshaer, Arch., 906 Park Bldg., for the construction of an addition to the Parish of St. Rose, at Detroit Ave. and West 116th St. Estimated cost, $40,000.

Cleveland, Ohio—William S. Lougree, Arch., Marshall Bldg., has prepared tentative plans for the construction of a 16-story fireproof office building on the site of the Republic Bldg., 647 Euclid Ave. for Arthur M. Brown and Philip Brown, Newcastle, Penn. The estimated cost is $2,000,000.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received until noon, Aug. 6, by Ezra K. Bryan, Clk., Bd. of Education, Cleveland Heights Village School Dist., Lee Rd., Cleveland Heights, for the construction of a grade school at Fairfax, Scarborough and Lee Rd. Franz C. Warner, 787 Hippodrome Bldg., Cleveland, is Arch. Noted July 1.

Columbus, Ohio—An election will be held Aug. 10 to vote on the question of issuing $150,000 in bonds. The proceeds will be used for the construction of a workhouse, shops, powerhouse, barns, storehouses and other necessary buildings. George J. Karb is Mayor.

Columbus, Ohio—Plans are being prepared by Tressett & Bassett, Arch., for the construction of a recreation building at Schiller Park, Columbus. Estimated cost, $40,000.

Dayton, Ohio—The Directors of the Miami Conservancy District will construct an office building at Monument Ave. and Jefferson St. opposite Van Cleave Park. The building will be used as offices by the engineers, appraisers, clerks and staff to be employed on the construction of the proposed $18,000,000 dry reservoir system. Edward A. Deeds is Chn.

Defiance, Ohio—The Members of Defiance Lodge B. P. O. E. No. 147 contemplate the construction of a two-story building. The estimated cost is $60,000.

Elyria, Ohio—The Lorain County Banking Co. will construct a 10-story fireproof bank and office building on the N. L. Johnson Blk. A. B. Taylor is Pres. and A. J. Plocher is Secy.

Ironton, Ohio—Bids will soon be received for the construction of a hotel. The estimated cost is $100,000. T. J. Kennedy is Secy. of Bldg Com. and W. H. St. Clair, Charleston, W. Va., is Arch. Noted June 10.

✦Newburg, Ohio—(Cleveland post office)—The contract for the construction of a temple on Miles Park Ave. for the Newburg Masonic Temple Co. has been awarded to the SAMUEL W. EMERSON CO., Chamber of Commerce Bldg., Cleveland. W. J. Carter, 1423 Illuminating Bldg., Cleveland, is Arch. Estimated cost, $70,000. Noted May 6 and June 3.

Toledo, Ohio—Contracts will be awarded about Sept. 15 for the construction of a six-story, 56x67-ft. apartment hotel for the Scottwood Realty Co. Estimated cost, $100,000. Noted June 10.

Wyoming, Ohio—Plans have been prepared by Garber & Woodward, Arch., 2803 Union Central Bldg., Cincinnati, for the construction of a two-story grade school addition. The estimated cost is $50,000.

Evansville, Ind.—Bids are being received and contracts will be awarded about Aug. 1 by the Directors of the Vanderburg County Coliseum for the construction of a $250,000 coliseum. Charles P. Beard is Secy., Bd. of Dirs. Noted Mar. 25 and Apr. 8.

✦Franklin, Ind.—The contract for the construction of buildings at the State Masonic Home for the Grand Masonic Lodge of Indiana has been awarded to the STATE CONSTRUCTION CO. OF INDIANAPOLIS, at $140,779. Noted May 6 and 27.

Indianapolis, Ind.—Contracts will soon be awarded for the construction of a six-story brick and steel business building at South Meriden St. for John B. Bright & Son, 221 East Maryland St. The estimated cost is $100,000.

✦Lafayette, Ind.—The contract for the construction of a two-story veterinary building for Purdue University, has been awarded to the WILLIAM P. JUNGSCLAUS CO., Indianapolis, at $40,000. Noted June 24.

SEWER SYSTEM—DOWNINGTOWN, PENN.

✦Bids were received June 7 by the Borough Council for the construction of a sewer system from: (A) Engineer's Estimate, (B) Polock & Lewis, Downingtown, (C) Edwin H. Vare, Philadelphia, (D) John A. Clark, Wilmington, Del., (E) Martin, Miller & Pizzimenti, Caldwell, N. J., (F) Frank X. Hinden, Lancaster, (G) W. H. Johnson, Philadelphia, (H) F. E. Gross, Yonkers, N. Y., (I) Jones & Haggart, Pittsburgh, (J) Dabbs & Meyers, Laurel, Md., (K) Thomas E. Dwyer, Philadelphia, (L) M. & T. E. Farrell, West Chester, (M) Cantrell Construction Co., Philadelphia, (N) GEORGE C. SOUDER, Lancaster (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
18-in. terra cotta pipe 4 ft. deep	$1.00	$0.96	$0.91	$1.00	$0.85	$0.78	$0.95	$1.20	$1.12	$1.00	$0.73	$8.45	$0.86	$0.72
618 lin.ft. 18-in. terra cotta pipe, 4 to 6 ft. deep	1.40	1.08	1.00	1.20	0.93	0.80	0.97	1.20	1.29	1.10	0.85	0.95	1.10	0.79
700 lin.ft. 18-in. terra cotta pipe, 6 to 8 ft. deep	1.50	1.24	1.11	1.35	1.00	0.85	1.15	1.20	1.43	1.20	1.11	1.05	1.28	1.88
1500 lin.ft. 18-in. terra cotta pipe, 8 to 10 ft. deep	1.60	1.56	1.26	1.55	1.23	0.91	1.35	2.00	1.57	1.50	1.21	1.24	1.47	0.98
1500 lin.ft. 15-in. terra cotta pipe, 4 to 6 ft. deep	1.00	0.72	0.81	0.90	0.62	0.72	0.78	0.80	1.12	0.80	0.97	0.705	0.85	0.60
490 lin.ft. 15-in. terra cotta pipe, 6 to 8 ft. deep	1.25	0.87	0.92	1.05	0.72	0.77	0.90	1.25	1.26	1.00	0.89	0.79	1.00	0.69
15 in. terra cotta pipe, 8 to 10 ft. deep per lin.ft.	....	1.20	1.07	1.25	0.95	0.82	1.25	1.60	1.40	1.30	1.01	0.915	1.39	0.78
15-in. terra cotta pipe, 10 to 12 ft. deep per lin.ft.	....	1.65	1.15	1.50	1.25	0.87	1.50	2.00	1.54	1.50	1.25	1.08	1.72	1.02
12-in. terra cotta pipe, 0 to 4 ft. deep per lin.ft.	....	0.47	0.51	0.65	0.45	0.53	0.55	0.60	0.91	0.60	0.73	0.48	0.56	0.43
1070 lin.ft. 12-in. terra cotta pipe, 4 to 6 ft. deep	0.60	0.57	0.60	0.70	0.48	0.55	0.60	0.60	0.98	0.70	0.73	0.57	0.68	0.44
12 in. terra cotta pipe, 6 to 8 ft. deep, per lin.ft.	0.80	0.71	0.67	0.82	0.65	0.60	0.80	0.90	1.12	0.90	0.99	0.65	0.78	0.53
460 lin.ft. 12-in. terra cotta pipe 8 to 10 ft. deep	1.00	0.95	0.80	1.00	0.78	0.69	0.93	1.00	1.26	1.10	1.27	0.82	1.00	0.63
12-in. terra cotta pipe, 10 to 12 ft. deep per lin.ft.	.....	1.44	0.83	1.25	1.00	0.78	1.25	1.90	1.40	1.40	1.61	0.92	1.36	0.85
12-in. terra cotta pipe, 12 to 15 ft. deep per lin.ft.	.....	2.30	1.11	1.70	1.50	0.93	1.65	3.25	1.55	1.60	2.51	1.10	1.95	1.10
3290 lin.ft. 10-in. terra cotta pipe, 4 to 6 ft. deep	0.60	0.51	0.53	0.57	0.45	0.47	0.45	0.55	0.94	0.60	0.45	0.49	0.55	0.40
110 lin.ft. 10-in. terra cotta pipe, 6 to 8 ft. deep	0.70	0.65	0.60	0.70	0.60	0.57	0.60	0.65	1.08	0.75	0.69	0.57	0.72	0.48
10-in. terra cotta pipe, 8 to 10 ft. deep per lin.ft.	.....	0.93	0.72	0.86	0.80	0.62	0.85	1.00	1.22	0.90	0.99	0.68	0.89	0.58
10-in. terra cotta pipe, 10 to 12 ft. deep per lin.ft.	.....	1.38	0.82	1.06	1.10	0.69	1.00	1.50	1.36	1.20	1.61	0.79	1.31	0.81
10-in. terra cotta pipe, 12 to 15 ft. deep per lin.ft.	.....	2.30	1.04	1.50	1.40	0.84	1.25	3.00	1.51	1.50	2.51	1.00	1.88	1.05
19,632 lin.ft. 8-in. terra cotta pipe, 4 to 6 ft. deep	0.40	0.41	0.46	0.49	0.41	0.43	0.35	0.40	0.68	0.50	0.37	0.38	0.46	0.33
12,657 lin.ft. 8-in. terra cotta pipe, 6 to 8 ft. deep	0.50	0.52	0.60	0.59	0.49	0.56	0.46	0.50	0.82	0.65	0.53	0.48	0.60	0.41
1973 lin.ft. 8-in. terra cotta pipe, 8 to 10 ft. deep	0.80	0.78	0.65	0.70	0.65	0.76	0.70	0.65	0.96	0.75	0.97	0.60	0.82	0.52
300 lin.ft. 8-in. terra cotta pipe, 10 to 12 ft. deep	1.50	0.93	0.75	0.90	0.91	0.75	0.90	1.00	1.10	1.00	1.01	0.75	1.18	0.75
8-in. terra cotta pipe, 12 to 14 ft. deep	.....	1.20	0.95	1.20	1.30	0.89	1.20	2.75	1.23	1.25	1.51	0.93	1.57	1.00
2 18-in. Y-branches	.....	2.50	3.14	1.55	1.50	2.11	1.00	1.00	2.40	1.00	1.97	2.00	1.70	1.20
2 15-in. Y branches	.....	1.65	2.31	1.15	1.00	1.51	0.80	1.00	1.57	0.75	1.31	1.50	1.15	1.00
4 12-in. Y branches	.....	1.10	1.55	0.90	0.75	1.05	0.65	0.75	1.17	0.50	1.05	1.25	0.75	0.75
20 10-in. Y branches	.....	0.65	1.44	0.75	0.50	0.88	0.50	0.60	1.04	0.45	1.81	1.00	0.60	0.60
1025 8-in. Y branches	.....	0.60	1.17	0.50	0.40	0.68	0.35	0.40	0.78	0.40	0.51	0.75	0.40	0.44
11 Lampholes	12.00	13.10	16.85	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	8.00	10.30
144 plain manholes	40.00	40.00	51.00	40.00	35.00	30.00	43.00	32.00	40.00	35.00	43.50	48.00	41.00	35.50
1 flush manhole	55.00	75.00	80.00	60.00	55.00	74.00	55.00	75.00	60.00	40.00	75.00	73.00	80.00	50.00
Drop manhole	50.00	75.00	51.00	42.00	45.00	32.00	50.00	75.00	50.00	40.00	60.00	82.00	50.00	38.00
5 catch buckets	4.50	6.00	6.00	4.50	3.00	4.50	4.00	3.00	5.00	15.00	5.00	4.00	6.00	4.80
7 flush tanks	65.00	75.00	100.00	85.00	75.00	94.00	75.00	95.00	75.00	75.00	75.00	100.00	105.00	88.00
5 house connections	0.35	0.45	0.40	0.50	0.45	0.32	0.45	0.80	0.75	0.40	0.60	0.60	0.60	0.50
196 lin.ft. 8-in. c.i. pipe, 4 to 6 ft. deep	1.50	1.71	1.71	1.54	2.71	1.08	2.55	1.30	1.46	1.50	1.37	1.28	1.01	1.47
108 lin.ft. 8-in. c.i. pipe, 6 to 8 ft. deep	1.80	1.84	1.85	1.64	2.79	1.21	2.66	1.40	1.60	1.65	1.53	1.38	1.15	1.55
416 lin.ft. 12-in. c.i. pipe, 4 to 6 ft. deep	2.00	2.27	2.10	3.05	3.23	2.18	3.35	2.05	2.44	2.20	2.40	2.32	1.61	2.14
15-in. per lin.ft.	.....	1.81	1.75	3.00	3.00	3.09	3.25	2.00	1.74	2.00	2.25	2.25	1.42	2.40
192 lin.ft. 18-in. c.i. pipe, 4 to 6 ft. deep	3.00	2.89	3.00	4.95	4.93	4.28	4.57	3.70	3.53	3.35	3.35	3.95	2.77	3.29
Extended totals	$34,207	$34,009	$37,472	$37,572	$31,923	$32,080	$33,333	$33,012	$46,707	$36,777	$33,825	$32,972	$36,010	$27,231

Muncie, Ind.—Bids will be received until July 30 by F. M. Williams, County Audr., for the construction of a two-story, 36x100-ft. infirmary building. Estimated cost, $40,000. C. H. Houck is Arch. Noted June 24 and July 1.

Muncie, Ind.—The Ball Bros. Glass Mfg. Co. plans to construct a two-story office building which will cost about $75,000.

Detroit, Mich.—Crowley, Milner & Co., Gratiot and Monroe Ave., plans to construct an eight-story fireproof addition on Monroe Ave. The estimated cost is $400,000. Albert Kahn, 58 Lafayette Blvd., is Arch.

Grand Rapids, Mich.—The Compau Square Bldg. Co. plans the construction of a 10-story fireproof building to be used as a furniture exposition and commercial building on Pearl and Louis St. and Campau Ave. The estimated cost is between $450,000 and $500,000.

Kalamazoo, Mich.—The Trustees of the Kalamazoo State Hospital plan to construct a three-story building as a home for employees of the hospital. Estimated cost, $74,000. Wenette, Bradfield, Mead & Co., Grand Rapids, is Arch.

Marquette, Mich.—The First Church of Christ, Scientist, plans to construct a church. Estimated cost, $50,000.

Saginaw, Mich.—The Bancroft Realty Co. will construct a six-story hotel to replace the Bancroft House. The estimated cost is $650,000.

Bensenville, Ill.—The Northern District of the German Evangelical Synod, Champaign, has decided to construct a home for the aged at Bensenville. Estimated cost, $50,000.

Chicago, Ill.—Plans have been prepared by Henry L. Newhouse, Arch., 4630 Prairie Ave., for the construction of a two-story theater and lodge building on Ashland Ave. for Nathan Ascher. Estimated cost, $90,000.

Chicago, Ill.—Charles H. Kusel plans to construct a theater, store and apartment building at Montrose Ave. and North Lincoln St. The estimated cost is $150,000.

Macomb, Ill.—The members of the Board of Trustees of the Western Illinois State Normal School plan the construction of a building for the school of Manual Arts on the campus. The estimated cost is $95,000.

Oblong, Ill.—L. H. Osterhage, Arch., Vincennes, Ind., is preparing plans for the construction of a township high school. The estimated cost is $60,000.

Milwaukee, Wis.—The Directors of St. Catherine's Home, 1131 Sycamore St., plan to construct a four-story home on the present site. Estimated cost, $65,000. James J. Quinn is Chn. of Bldg. Com.

Milwaukee, Wis.—Plans are being revised by Brust & Philipp, Arch., 506 Free Press Bldg., for the remodeling and improving of the Merrill Bldg., at Second St. and Grand Ave. The estimated cost is $150,000. Noted Apr. 8.

Montello, Wis.—Bids will soon be received for the construction of a two-story courthouse and jail. The estimated cost is $50,000. Parkinson & Dockendorff, La Crosse, is Arch. Noted June 24.

Neenah, Wis.—Plans are being prepared by Edward Bergstrom, Arch., Los Angeles, Calif., for the construction of a fireproof hotel for the Merchants & Manufacturers' Hotel Co. The estimated cost is $75,000. Frank J. Sensenbrenner is Pres.

Alta, Iowa—At a recent election the citizens voted in favor of the question of isuing $55,000 in bonds; proceeds to be used for the construction of a school. Noted June 17.

Charter Oak, Iowa—At a recent election the citizens voted in favor of the question of issuing $50,000 in bonds; the proceeds of which will be used for the construction of a school.

Des Moines, Iowa—The Grocers Wholesale Co. plans to construct a three-story building estimated to cost $50,000.

Grinnell, Iowa—Plans have been prepared for the construction of a building for the Alumni Association at Grinnell College. The estimated cost is $150,000.

✚**Imogene, Iowa**—G. W. SPRAGUE & SON, Omaha, Neb., has been awarded the contract for the construction of a church at Imogene to cost about $45,000.

Iowa City, Iowa—Contracts will be awarded about Aug. 24 by the State Board of Education for the construction of a four-story dental building at Iowa University. The estimated cost is $175,000. Noted Jan. 14.

✚**Primghar, Iowa**—(Official)—Bids were received June 15 by J. B. Stamp, County Audr., for the construction of a court house for O'Brien County as follows: C. E. Atkinson, Webster City, $117,936; Bankers Realty Investment Co., Omaha, Neb., $114,995; J. P. Cullen Construction Co., Janesville, Wis., $121,000; L. W. Dumas, Jr., Construction Co., Columbia, Mo., $122,649; E. Eilenberger & Co., Chicago, Ill., $130,421; J. B. Evans Construction Co., Mexico, Mo., $126,600; Charles Franklin, Iowa City, $125,000; Gray Construction Co., Watertown, S. D., $121,641; A. Cuthrie & Co., St. Paul, Minn., $118,990; J. H. Hunzinger & Co., Burlington, $139,430; G. A. Johnson & Son, Chicago, Ill., $127,550; King Lumber Co., Charlottesville, Va., $127,700; William S. Kingsley, Faribault, Minn., $117,000; La Crosse Steel & Construction Co., La Crosse, Wis., $122,952; J. E. LOVEJOY, Des Moines, $116,550 (awarded contract); W. F. Mitchell, Des Moines, $122,000; J. B. Nelson Construction Co., Mankato, Minn., $123,948; O. H. Olsen, Stillwater, Minn., $117,280; William O'Neill & Son, Faribault, Minn., $128,747; Splady, Albee & Smith, Minneapolis, Minn., $117,450; A. M. Wold Construction Co., Brookings, S. D., $116,600. Noted May 27.

✚**Woodward, Iowa**—(Official)—The BAILEY-MARSH CO., Minneapolis, Minn., at $230,602 has been awarded the contract for the construction of buildings at the State Colony for Epileptics. Other bidders were: T. Ellenberger & Co., Chicago, Ill., $244,000; C. E. Atkinson, Webster City, Iowa, $257,354; George J. Grant Construction Co., St. Paul, Minn., $279,987; A. H. Neumann & Co., Des Moines, Iowa, $281,449; J. W. Turner Improvement Co., Des Moines, Iowa, $294,825; J. B. Evans Construction Co., Mexico, Mo., $242,786; Splady, Albee & Smith, Minneapolis, Minn., $239,984. M. N. Voldeng is Supt. Noted June 14 and July 8.

✚**Little Falls, Minn.**—The general contract for the construction of a hospital has been awarded to N. P. FRANZEN, St. Paul, at $50,000. Noted June 17.

Minneapolis, Minn.—The Board of Directors of the Salvation Army contemplates rebuilding its industrial home recently destroyed by fire. Estimated cost, $100,000.

St. Paul, Minn.—The Brown, Treacy & Sperry Co., Fifth and Minnesota St., will construct a two-story, 100x150-ft. concrete and glass building on University and Wheeler Ave. The estimated cost is $100,000.

LINCOLN ST. TRUNK SEWER—PORT ANGELES, WASH.

✚Bids were received June 29 for the construction of the Lincoln St. Trunk Sewer from (A) METTLER & COIT (awarded contract), (B) Zindorf & Lidral, (C) Grant Shearer, (D) Ferch & Gass, (E) Dicken & Anderson, (F) H. A. Cotton, (G) E. M. More, (H) C. Kuppler. The item bids were as follows:

	A	B	C	D	E	F	G	H
370 lin.ft. vitrified clay sewer pipe, 8-in.	$0.36	$0.32	$0.42	$0.75	$0.40	$0.38	$0.35	$0.37
370 lin.ft. vitrified clay sewer pipe, 10-in.	.53	.47	.60	.90	.60	.53	.40	.53
370 lin.ft. vitrified clay sewer pipe, 12-in.	.66	.59	.69	1.00	.65	.66	.60	.70
1310 lin.ft. vitrified clay sewer pipe, 15-in.	1.15	1.03	1.25	1.50	1.20	1.17	1.40	1.10
430 lin.ft. vitrified clay sewer pipe, 18-in.	1.54	1.39	1.66	1.75	1.55	1.55	1.40	1.63
570 lin.ft. vitrified clay sewer pipe, 21-in.	2.05	1.82	2.20	2.25	2.25	2.05	1.70	2.20
2670 lin.ft. vitrified clay sewer pipe, 24-in.	2.54	2.25	2.65	2.50	2.50	2.70	2.75	2.75
220 lin.ft. vitrified clay sewer pipe, 30-in.	5.26	4.60	5.35	4.50	5.50	5.61	4.35	4.96
370 lin.ft. cement sewer pipe, 8-in.	.20	.30	.25	....	....	....	....	....
370 lin.ft. cement sewer pipe, 10-in.	.27	.41	.35	....	....	....	....	....
370 lin.ft. cement sewer pipe, 12-in.	.34	.50	.40	....	....	....	....	....
1310 lin.ft. reinforced concrete pipe, 15-in.	.93	....	1.00	....	....	....	....	....
430 lin.ft. reinforced concrete pipe, 18-in.	1.16	....	1.20	....	....	....	....	....
570 lin.ft. reinforced concrete pipe, 21-in.	1.66	....	1.75	....	....	....	....	....
2670 lin.ft. reinforced concrete pipe, 24-in.	1.89	....	1.99	2.75	....	....	....	....
220 lin.ft. reinforced concrete pipe, 30-in.	3.13	....	3.25	3.75	....	....	....	....
225 lin.ft. c.i. pipe including excavation and backfilling, 18-in.	4.00	5.00	4.50	5.00	5.00	7.00	3.50	....
220 lin.ft. one ring brick sewer, 30 in.	4.00	2.80	4.00	2.50	3.00	3.00	5.00	3.50
25 brick manholes 4½ ft. x 8 ft.	40.00	65.00	55.00	80.00	50.00	60.00	40.00	45.00
76 lin.ft. additional depth of m.H.	4.00	6.80	5.00	3.00	5.00	6.00	4.00	8.00
1 brick flush tank	100.00	100.00	100.00	130.00	100.00	100.00	90.00	100.00
31 brick catch basin	40.00	55.00	55.00	60.00	50.00	60.00	40.00	45.00
12 cu.yd. reinforced concrete in saddles and outfall	12.00	25.00	15.00	16.00	20.00	25.00	15.00	20.00
400 lin.ft. lumber cradle to carry sewer on trestle	.85	.70	.90	.50	1.25	1.30	1.25	1.00
Storm sewer overflow (lump sum)	30.00	25.00	35.00	40.00	75.00	50.00	50.00	100.00
75 lin.ft. trenching and backfilling for 6 in. to 12-in. pipe, 10 ft. deep	.46	.48	.55	.75	.75	.42	1.22	.51
300 lin.ft. trenching and backfilling for 6-in. to 12-in. pipe, 12 ft. deep	.65	.60	.75	.90	.75	.55	1.24	.70
400 lin.ft. trenching and backfilling for 6-in. to 12-in. pipe, 14 ft. deep	.78	.63	.80	1.05	.75	.70	1.27	.78
250 lin.ft. trenching and backfilling for 6-in. to 12-in. pipe, 16 ft. deep	.98	.86	1.00	1.30	.75	.90	1.37	.98
85 lin.ft. trenching and backfilling for 6-in. to 12-in. pipe, 18 ft. deep	1.17	1.03	1.25	1.50	.75	1.14	1.52	1.25
160 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 6 ft. deep	.33	.34	.40	.45	.80	.32	1.17	.33
75 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 8 ft. deep	.39	.48	.43	.60	.80	.42	1.27	.50
375 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 10 ft. deep	.52	.61	.60	.75	.80	.59	1.47	.70
420 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 12 ft. deep	.72	.76	.72	.90	.80	.76	1.57	.85
485 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 14 ft. deep	.87	.93	.87	1.15	.80	1.00	1.62	1.10
225 lin.ft. trenching and backfilling for 15-in. to 18-in. pipe, 16 ft. deep	1.17	1.08	1.25	1.50	.80	1.25	1.67	1.35
100 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 6 ft. deep	.39	.40	.42	.60	1.00	.34	1.32	.45
250 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 8 ft. deep	.52	.59	.55	.75	1.00	.51	1.42	.70
200 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 10 ft. deep	.63	.74	.70	.90	1.00	.66	1.57	1.00
700 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 12 ft. deep	.78	.92	.80	1.10	1.00	.90	1.67	1.45
800 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 14 ft. deep	.98	1.13	1.05	1.25	1.10	1.20	1.82	2.00
490 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 16 ft. deep	1.24	1.33	1.30	1.50	1.10	1.52	2.07	2.20
200 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 18 ft. deep	1.37	1.58	1.50	2.00	1.10	1.80	2.17	2.80
100 lin.ft. trenching and backfilling for 21-in. to 24-in. pipe, 26 ft. deep	3.64	2.70	4.00	2.50	3.00	3.20	2.32	3.00
50 lin.ft. trenching and backfilling for 30-in. pipe, 14 ft. deep	1.17	1.29	1.25	1.30	3.50	1.38	2.32	2.00
70 lin.ft. trenching and backfilling for 30-in. pipe, 16 ft. deep	1.50	1.49	1.70	1.50	3.00	1.75	2.62	2.50
100 lin.ft. trenching and backfilling for 30-in. pipe, 18 ft. deep	1.76	1.79	1.85	1.70	3.00	2.20	3.02	3.00
Extended totals	$30,268	$30,863	$32,314	$34,213	$32,335	$33,660	$35,090	$33,096

Kansas City, Kan.—The Kansas City Terminal Ry. Co. plans to construct a terminal station. The estimated cost is $200,000.

Newton, Kan.—The Trustees of the M. E. Church contemplate the construction of a church. The estimated cost is $45,000.

Salina, Kan.—The congregation of the First Methodist Church plan to construct a new building. The estimated cost is $40,000.

Omaha, Neb.—A medical and surgical hospital will be constructed at 25th and Douglas St. at cost of about $150,000. Michael J. Ford will be in charge of the hospital.

Butte, Mont.—Bids will soon be received for the construction of a four-story, 65x100-ft. fireproof building for the Knights of Columbus. The estimated cost is $125,000. Link & Haire, 615 State Savings Bank Bldg., is Arch.

Butte, Mont.—The Directors of St. James Hospital plan to improve the hospital by constructing an additional story to the building. Estimated cost, $60,000.

Miles City, Mont.—(Official)—Bids will be received until 7:30 p.m., Aug. 12, by J. B. Collins, Clk. of School Dist. No. 1, for the construction of an addition to the high school. Estimated cost, $60,000. Noted June 3 and July 8.

White Sulphur Springs, Mont.—Plans have been prepared by H. H. Johnson, Arch., Great Falls, for the construction of a three-story, 175x185-ft. hotel. The estimated cost is $100,000. A. F. Conrad, Great Falls, is interested.

Boonville, Mo.—H. H. Hohenschild, Arch., Navarre Bldg., St. Louis, is preparing plans for the construction of two buildings for the State Reformatory. The estimated cost is $200,000. Cornelius Roach, Jefferson City, is State Secy.

Carterville, Mo.—An election will soon be held to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a tuberculosis sanitarium for Jasper County.

Kansas City, Mo.—The American Institute of Homeopathy plans to construct a hospital and school of medicine. The estimated cost is $1,000,000.

Kansas City, Mo.—H. F. Hall and F. G. Crowell plan to construct a business building at 1533 Walnut St. The estimated cost is $75,000.

Kansas City, Mo.—The Morbros Investment Co. plans to construct a six-story, 117x170-ft. business building at 201 East 22d St. The estimated cost is $65,000.

✚Kansas City, Mo.—The Baltimore Avenue Investment Co. has awarded the contract for the construction of a nine-story reinforced-concrete hotel at 1114 Baltimore Ave. to FRED H. CRITES, at $65,705. J. H. Martling, 15 West Ninth St., is Arch. Noted June 24.

✚St. Joseph, Mo.—The contract for the construction of an eight-room fireproof addition to the Hosea School at Gordon and Hyde Park Ave. has been awarded to HACKETT & SIMPSON, at $40,302. Noted June 10 and 24.

College Station, Tex.—Contracts will soon be awarded for the constructionof an agricultural building at the Agricultural and Mechanical College. The estimated cost is $100,000. W. B. Bizzell is Pres.

Corsicana, Tex.—An election will soon be held to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a hospital for Navarro County.

Dallas, Tex.—Bids were received by the Board of Education on the general contract for the construction of the Lamar School on Corinth and Gould St., as follows: Hewett & Hilner, $52,697; Gowin & Stearman, $51,000; Ennison & McCord, $54,789; Hughes-O'Rourke, $59,189; Buchanan & Gilder, $50,990; Watson Co., $56,890; Gilsonite Co., $57,600; W. H. King, $52,756.

El Paso, Tex.—The citizens of El Paso County will vote Aug. 3 on the question of issuing $750,000 in bonds. The proceeds will be used for the construction of an addition to the hospital, and for a poor farm.

El Paso, Tex.—Hugh W. Crouse and others plan to construct an eight-story, reinforced-concrete medical building at Oregon and Missouri St. Estimated cost, $200,000.

Huntsville, Tex.—Endress & Watkin, Arch., Austin, has been commissioned by the State Normal Board to prepare plans for the construction of a science building at the Sam Houston Normal School.

Palestine, Tex.—On July 2 the citizens voted in favor of the question of issuing $100,000 in bonds. The proceeds will be used for the construction of a high school. Noted June 17.

San Antonio, Tex.—Bids will be received about Aug. 1 for the construction of a four-story reinforced-concrete and brick hospital to be known as the Robert B. Green Memorial. The estimated cost is $250,000. Atlee B. Ayres and Reuter & Harrington are Archs.

✚Tulsa, Okla.—The contract for the construction of a two-story library has been awarded to THOMAS O'KEEFE, Tulsa, at $51,438. J. W. Hawk, Ohio Bldg., is Arch. Noted Mar. 11.

Idaho Springs, Colo.—Plans have been prepared for improving the Idaho Springs Hotel. The estimated cost is $100,000. C. L. Simpson, 619 Dwight Bldg., Kansas City, Mo., is Arch.

Salt Lake City, Utah—The Salt Lake Security & Trust Co. will construct a 17-story building at First, South and Main St. on the site of the Utah State National Bank. The estimated cost is $1,200,000. F. E. McGurrin is Pres. and Joseph J. Cannon is Secy.

Aberdeen, Wash.—Ralph L. Phillbrick and associates plan to construct a business block on Eighth St. between J and I St. The estimated cost is $150,000.

Bellingham, Wash.—Plans are being prepared by T. F. Doan, Arch., for the construction of an addition to the North Side High School. The estimated cost is $95,000. Noted June 24.

Hoquiam, Wash.—Ralph L. Philbrick is interested in a project to construct a business building on Eighth St., between J and L St. The estimated cost is $150,000.

Seattle, Wash.—Somerville & Putnam, White Bldg., is preparing plans for the construction of a three-story, 60x120-ft. brick hotel for F. E. Welty, New York Blk. The estimated cost is $50,000. Noted Mar. 18.

Spokane, Wash.—Plans have been prepared by Julius Zittel, Arch., The Rookery, Spokane, for the construction of a three-story brick and stone nunnery for the Franciscan Monastery of St. Clare. Estimated cost, $60,000. Noted June 10.

Vancouver, Wash.—Plans have been prepared by D. Nichols, Arch., for the construction of a School for the Blind. Estimated cost, $75,000. Noted June 10.

Portland, Ore.—Bids have been received for the Franklin High School as follows: James S. Winters, Couch Bldg., $74,897; John Almeter, Builders' Exchange, $83,600; Parker & Banfield, $83,222; Sound Construction Co., Lowman Bldg., Seattle, $82,332. Noted May 20.

✚Los Angeles, Calif.—(Official)—The HUNTSBERGER-REED CO., 414 Van Nuys Bldg., Los Angeles, at $48,636, has been awarded the contract for the construction of a two-story high school on Rowan Ave. Other bids were: Barber-Bradley Construction Co., $49,378; Cresmer Mfg. Co., $49,980; Frank R. May, $49,300; Broadway Construction Co., $50,975; J. T. Atkinson, $51,000. Noted June 3 and July 1.

Los Angeles, Calif.—W. J. Bliesner, Arch., Van Nuys Bldg., is preparing plans for a gymnasium at the Polytechnic High School. The estimated cost is $40,000.

✚Los Angeles, Calif.—The general contract for the construction of a school has been awarded to the BROADWAY CONSTRUCTION CO., 235 East Washington St., at $80,070.

✚Los Angeles, Calif.—The contract for the construction of a school at First and Vermont St. has been awarded to the LOS ANGELES PLANING MILL CO., Los Angeles, at $95,987. Noted June 3 and 24.

Oakland, Calif.—The Southern Pacific Co. will construct a station at 13th and Franklin St. The estimated cost is $1,250,000.

Sacramento, Calif.—The city plans to construct a two-story concrete and brick Carnegie library at Ninth and I St. The estimated cost is between $75,000 and $100,000.

Susanville, Calif.—(Official)—Bids will be received until Aug. 2 by W. W. Sharp, County Treas. and Tax Collector, for the construction of a courthouse and county hospital. The estimated cost is $100,000. George E. Bassett is County Clk. Noted May 20 and June 24.

Visalia, Calif.—The city plans to expend about $50,000 for the construction of a municipal auditorium.

✚Woodland, Calif.—The Board of Education has awarded the contract for the construction of a grammar school to ROBERT TROST, at $68,534. Noted Nov. 19.

London, Ont.—Work will soon begin on the construction of a hotel and business block at London. The estimated cost is $250,000.

✚Vancouver, B. C.—PURDY & HENDERSON, Henry Bldg., Seattle, Wash., has been awarded the contract for the construction of a three-story reinforced-concrete bank building at Pender and Granville St. for the Merchants' Bank of Canada. Estimated cost, $150,000. Noted Apr. 8.

✚Victoria, B. C.—The contract for the construction of a two-story office building has been awarded to TUNEY BROS., Victoria. Estimated cost, $75,000. Percy Fox is Arch.

PAVING, ELGIN, ILL.

✚Bids were received June 26 by the Board of Local Improvements, Elgin, Ill., for paving North State St. from: (A) LOGAN & GIERTZ CONSTRUCTION CO., Elgin, for Purington block (awarded contract); (B) same company, using Barr block; (C) Illinois Hydraulic Stone & Construction Co., Elgin; (D) H. G. Goelitz, Oak Park; (E) Engineer's Estimate. The item bids were as follows:

	A	B	C	D	E
12,062 sq.yd. brick pavement	$1.75	$1.77	$1.84	$1.82	$1.90
3503 lin.ft. curb and gutter	.50	.50	.44	.44	.55
2895 lin.ft. curb	.30	.30	.38	.38	.40
298 lin.ft. concrete header	.20	.20	.20	.30	.35
26 crosswalk headers	2.00	2.00	1.50	2.00	2.00
16 gutter plates	3.00	3.00	2.50	3.00	3.00
9 catch basins	30.00	30.00	20.00	25.00	25.00
170 lin.ft. 8-in. sewer	.50	.50	.30	.60	.60
Adjusting manholes and catch basins (lump sum)	41.90	40.66	50.00	50.00	50.00
Extended totals	$24,360	$24,600	$25,310	$25,240	$26,673

Case Co. Increasing Facilities—The J. I. Case Threshing Machine Co., Racine, Wis., has taken over the plant and equipment of the Perfection Road Machinery Co. of Galion, Ohio. This company made Perfection road graders, drags, and rooter plows, for a number of years, which have been sold during the last few years by the Case Co. Frank K. Bull, President of the company, in referring to the transaction, says: "The demand made for road graders has impressed the company, and it has been deemed wise to take over the actual production of this machinery because it will be more economical to concentrate all manufacturing at Racine, as the business can be handled much better from that point." He outlined the logical development of the company from purely as a threshing machine company to an important factor in the road machinery business.

The Sandusky Portland Cement Co. will move its general offices on Aug. 1 from Sandusky to Cleveland, Ohio. The headquarters of the secretary and treasurer, etc., are already at Cleveland, and will be combined with the offices of the president and general superintendent and the sales, publicity and accounting departments. The offices will be located in the Engineers Bldg.

The Bayonne Casting Co., East Tenth St., Bayonne, N. J., announces that J. F. McNamara has been appointed general manager, effective July 1. Such changes have been made in the foundry and office as will assure customers even more prompt and satisfactory service than in the past.

SEWER EXTENSIONS—SCARSDALE, N. Y.

✚Bids were received June 22 by the Sewer Commissioners of Scrasdale, for the construction of sewer extension, Divisions A, B and C, from (A) William R. Neely, Tarrytown, (B) FRED E. GROSS & SON, Yonkers (awarded contract for Divisions A and B); (C) Sound Engineering & Contracting Co., Inc., 1476 Broadway, New York, (D) Lincoln Steele Fleming Co., 17 Madison Ave., New York; (E) Charles Smith, Pelham; (F) F. A. Cianfaglione, Yonkers; (G) Briggs & McLaughlin Contracting Co., 337 East 134th St.; (H) Richards & Cestonia, White Plains; (I) DALY & MERRITT, Port Chester (awarded contract for Division C); (J) Frank [illegible], White Plains; (K) Joseph Dimando, Inc., Mamaroneck; (L) John L. Hayes Construction Co., Inc., Yonkers; (M) D[illegible]enna & Del Balso, 2336 Cambrelling Ave., New York; (N) [illegible]auro Paradiso, White Plains; (O) Charles E. Farrell Con[illegible]ing Co., 1831 Southern Blvd., New York; (P) Engineers' E[illegible]ntae. The item bids were as follows:

DIVISION A	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
100 lin.ft. 10-in. vitrified sewer 6 ft. to 8 ft. deep, inc. 8 ft.	$0.55	$0.80	$0.58	$0.74	$0.72	$0.65	$1.00	$0.79	$1.00	$1.20	$0.90	$0.74	$0.85	$1.[illegible]	0[illegible].95
450 lin.ft., 8 ft. to 10 ft. deep, inc. 10 ft.	.70	.94	.75	.96	.95	.76	1.00	.95	1.09	1.35	1.00	.88	1.50	1.[illegible]	1.15
340 lin.ft., 8-in. vitrified sewer 6 ft. deep or less	.40	.56	.43	.55	.54	.55	1.00	.55	.91	.70	.80	.60	.85	1.[illegible]	.70
400 lin.ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.50	.69	.48	.65	.68	.60	1.00	.65	1.01	.85	.90	.69	1.00	1.[illegible]	.80
1300 lin.ft., 8 ft. to 10 ft. deep, inc. 10 ft.	.60	.80	.65	.88	.90	.75	1.00	.77	1.10	1.05	.95	.83	1.50	1.[illegible]	1.00
600 lin.ft., 10 ft. to 12 ft. deep, inc. 12 ft.	.75	1.10	.80	1.23	1.35	.90	1.50	1.10	1.25	1.30	1.00	1.02	1.75	1.[illegible]	1.25
100 lin.ft., 12 ft. to 14 ft. deep, inc. 14 ft.	.93	1.65	.95	1.40	2.00	1.15	1.50	1.50	1.70	1.55	1.20	1.18	2.00	1.[illegible]	1.60
10 lin.ft., 14 ft. to 16 ft. deep, inc. 16 ft.	1.15	2.30	1.30	2.00	3.00	1.50	2.00	2.00	2.00	1.95	1.60	1.43	2.00	1.[illegible]	2.00
20 Ys on 10 ft. sewer (over sewer price)	.55	.55	.75	.47	.75	.80	.40	1.00	1.00	.70	1.00	1.68	1.00	[illegible]	.80
90 Ys on 8 ft. sewer (over sewer price)	.40	.45	.63	.35	.60	.60	.30	.75	.90	.65	.70	1.12	1.00	[illegible]	.60
6 Y-extensions (over Y-price)	.80	1.90	1.43	1.25	.30	.50	.60	1.00	1.00	1.50	1.45	1.88	.50	.25	2.00
5 additional 2-ft. pcs. 6-in. pipe	.80	.28	.20	.34	.30	.40	.25	1.50	.40	.60	.50	.28	1.00	.25	.50
12 ft. 10-in. iron pipe sewer (over vitrified price)	1.00	.90	1.12	.92	1.50	3.50	2.00	3.00	1.50	1.15	.80	3.60	1.00	.55	.80
36 ft. 8-in. iron pipe sewer (over vitrified price)	.70	.70	.92	.69	1.25	2.75	2.00	2.50	1.35	.90	.75	3.00	.75	.55	.60
1 manhole, 6 ft. deep or less	30.00	38.00	49.00	45.00	37.00	30.00	45.00	45.00	40.00	42.00	40.00	35.00	35.00	60.00	45.00
9 manholes, 6 ft. to 8 ft. deep, inc. 8 ft.	40.00	45.00	59.00	48.00	42.00	35.00	50.00	50.00	45.00	52.00	50.00	44.00	40.00	65.00	60.00
22 ft. manholes, depth over 8 ft. (necks)	4.00	3.50	3.80	3.75	8.00	3.00	4.00	5.00	5.00	2.50	3.00	4.00	4.00	11.00	4.00
2 spurs in manholes, 6-in.	3.00	.60	.32	.37	.40	.30	.25	.50	2.00	.50	4.00	.25	1.00	.45	.50
2 sewer drop connections, 8-in.	10.00	7.00	7.88	10.00	6.00	.45	5.00	5.00	25.00	12.00	10.00	6.50	15.00	7.00	10.00
1 lamphole on 8-in. sewer	8.00	8.00	24.95	8.53	10.00	7.00	15.00	15.00	50.00	10.00	15.00	7.50	20.00	9.00	10.00
1 flush-tank, inc. l.h.	75.00	80.00	140.00	90.00	90.00	40.00	95.00	110.00	110.00	85.00	90.00	190.00	150.00	150.00	85.00
800 yd. rock excavation	3.00	2.25	3.00	3.20	2.70	2.90	3.00	2.50	3.50	2.65	3.00	3.15	3.00	2.70	3.00
Contingent Extras															
10 yd. concrete not shown on details	6.00	5.75	6.00	6.00	7.00	6.00	5.00	6.00	7.00	7.00	8.00	6.00	5.00	10.00	8.00
25 M. ft. b.m. sheeting and shoring left in	38.00	30.00	35.00	20.00	25.00	40.00	1.00	45.00	5.00	30.00	40.00	40.00	30.00	45.00	35.00
1 M ft. b.m. flooring or foundation lumber	35.00	35.00	35.00	40.00	30.00	40.00	30.00	60.00	35.00	30.00	40.00	40.00	30.00	45.00	40.00
500 ft. b.m. forms for concrete	35.00	35.00	35.00	90.00	60.00	50.00	30.00	60.00	35.00	35.00	40.00	40.00	10.00	15.00	30.00
100 yd. earth excavation not included otherwise	0.35	0.90	0.50	1.50	0.70	0.75	0.70	.40	.60	.50	.50	.66	.75	1.00	.80
Extension of Division A															
500 lin.ft. 8-in. vitrified sewer, 6 ft. deep or less	.40	.56	.43	.55	.54	.55	1.00	.55	.91	.70	.80	.60	1.00	.05	.70
440 lin.ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.50	.69	.48	.65	.68	.60	1.20	.65	1.01	.90	.85	.69	1.50	1.15	.80
200 lin.ft., 8 ft. to 10 ft. deep, inc. 10 ft.	.60	.80	.65	.88	.90	.75	1.40	.79	1.10	1.30	.85	.83	1.75	1.25	1.00
10 lin.ft., 10 ft. to 12 ft. deep, inc. 12 ft.	.75	1.10	1.20	1.23	1.35	.90	1.60	1.10	1.25	1.40	1.00	1.02	2.00	1.50	1.25
70 Ys on 8-in. sewer (over sewer price)	.40	.45	.63	.35	.75	.60	1.30	.75	.90	.65	.70	1.12	1.00	.65	.60
108 lin.ft. 8-in. iron pipe sewer (over vitrified price)	.70	.60	.92	.69	1.25	2.75	3.00	2.00	1.35	.90	.75	3.00	1.00	.60	.60
3 manholes 6 ft. deep or less	30.00	38.00	49.00	45.00	37.00	30.00	35.00	45.00	40.00	42.00	40.00	35.00	35.00	65.00	45.00
1 manhole 6 ft. to 8 ft. deep, inc. 8 ft.	40.00	45.00	59.00	48.00	42.00	35.00	40.00	50.00	45.00	52.00	50.00	44.00	60.00	70.00	60.00
3 lin.ft. manholes depth over 8 ft. (necks)	4.00	3.50	3.80	3.75	8.00	3.00	4.00	5.00	5.00	3.00	3.00	4.00	4.00	11.00	4.00
100 yd. rock excavation	3.00	2.75	3.00	3.20	2.65	2.90	4.00	2.50	3.50	2.75	3.00	3.15	2.50	2.75	3.00
Contingent Extras															
10 yds. concrete not shown on details	6.00	5.75	6.00	6.00	7.00	6.00	5.00	6.00	7.00	7.00	8.00	6.00	5.00	10.00	8.00
23 M. ft. b.m. sheeting and shoring left in	38.00	30.00	35.00	20.00	25.00	40.00	1.00	45.00	5.00	30.00	40.00	40.00	30.00	50.00	35.00
100 ft. b.m. flooring or foundation lumber	35.00	35.00	35.00	40.00	30.00	40.00	30.00	60.00	35.00	30.00	40.00	40.00	30.00	50.00	40.00
500 ft. b.m. forms for concrete	35.00	35.00	35.00	90.00	60.00	50.00	30.00	60.00	35.00	35.00	40.00	40.00	10.00	15.00	30.00
Extended totals	$8297	$8426	$8723	$9082	$9086	$9180	$9503	$9701	$9834	$9910	$10,175	$10,205	$11,711	$12,452	$10,263

DIVISION B	A	B	C	D	E	F	G	H	I	J	L	N	O	P
100 lin.ft. 8-in. vitrified sewer, 6 ft. deep or less	$0.40	$0.56	$0.43	$0.55	$0.62	$0.55	$0.80	$0.55	$0.91	$0.70	$0.60	$0.50	$0.85	$0.70
2200 lin.ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.50	.69	.48	.65	.76	.60	.80	.65	1.01	.82	.69	.60	1.00	.80
1400 lin.ft., 8 ft. to 10 ft. deep, inc. 10 ft.	.60	.80	.65	.88	.98	.75	.90	.77	1.10	1.00	.83	.90	1.25	1.00
50 lin.ft., 10 ft. to 12 ft. deep, inc. 12 ft.	.75	1.10	1.20	1.23	1.43	.90	1.00	1.00	1.25	1.25	1.02	1.00	1.50	1.25
250 Ys on 8-in. sewer (over sewer price)	.40	.45	.63	.35	.60	.60	.40	.75	.90	.65	1.12	1.00	.60	.60
12 lin.ft. 8-in. iron pipe sewer (over vitrified price)	.70	.70	.92	.69	1.25	2.75	2.00	2.00	1.35	1.00	3.00	.60	1.25	.60
2 manholes, 6 ft. deep or less	30.00	38.00	50.00	45.00	37.00	30.00	40.00	45.00	40.00	42.00	35.00	50.00	25.00	45.00
8 manholes, 6 ft. to 8 ft. deep, inc. 8 ft.	40.00	45.00	60.00	48.00	42.00	35.00	45.00	50.00	45.00	50.00	44.00	60.00	30.00	60.00
6 ft. manholes, depth over 8 ft. (necks)	4.00	3.50	3.80	3.75	8.00	3.00	4.00	5.00	5.00	2.50	4.00	11.00	2.00	4.00
2 spurs in manholes, 6-in.	3.00	.60	.32	.37	.40	.30	.50	.50	1.50	1.00	.25	.50	1.00	.60
1 sewer drop connection, 8-in.	10.00	7.00	7.88	10.00	6.00	.45	5.00	5.00	25.00	10.00	6.50	7.00	15.00	10.00
1 lamp-hole on 8-in. sewer	8.00	8.00	24.95	8.50	10.00	7.00	15.00	15.00	50.00	12.00	7.50	9.00	20.00	10.00
4 flush-tanks	75.00	80.00	140.00	90.00	90.00	40.00	95.00	110.00	110.00	85.00	190.00	150.00	150.00	85.00
1200 yd. rock excavation	3.00	2.25	3.00	3.20	2.65	2.80	3.00	2.25	3.50	2.50	3.15	2.75	2.65	3.00
Contingent extras														
10 yds. concrete not shown on details	6.00	5.75	6.00	6.00	7.00	6.00	5.00	6.00	7.00	7.00	6.00	10.00	6.00	8.00
5 M ft. b.m. sheeting and shoring left in	38.00	30.00	35.00	20.00	25.00	40.00	1.00	30.00	5.00	20.00	40.00	45.00	18.00	35.00
1000 ft. b.m. flooring or foundation lumber	35.00	35.00	35.00	40.00	30.00	40.00	1.00	60.00	35.00	20.00	40.00	45.00	18.00	40.00
500 ft. b.m. forms for concrete	35.00	35.00	35.00	90.00	60.00	50.00	20.00	60.00	35.00	35.00	40.00	15.00	18.00	30.00
100 yd. earth excavation not included otherwise	.35	.90	.50	1.50	.70	.65	.70	.40	.60	.50	.66	.80	.75	.80
Extended totals	$6791	$6713	$7371	$7985	$7682	$6929	$7875	$6845	$95552	$7631	$8493	$7957	$8646	$8394

WALWORTH RUN DIVERSION SEWER—CLEVELAND, OHIO

Bids were received July 7 by the Commissioner of Purchases and Supplies for the construction of the Walworth Run Diversion Sewer under two contracts, Sections Nos. 1 and 2 from (A) Hoag & Zullo, Cleveland, (B) Donnelly & Graham, Cleveland, (C) Manson Co., Cleveland, (D) Gawne Contracting Co., Cleveland, (E) Dock Contractor Co., Hoboken, N. J., (F) Joseph Winterbottom, Cleveland, (G) J. Connelly Construction Co., Cleveland, (H) W. P. Gibbons Co., Cleveland, (I) Henry C. Ulen, Chicago, Ill., (J) William McDowell & Son Co., Cleveland, (K) Charles A. Haskin, Boston, Mass., (L) J. Wagner & Son, Detroit, Mich. The item bids were as follows:

Section No. 1	A	B	C	D	E	F	G	H	I	J	K	L
4600 lin.ft. 5 ft. 6 in. circular brick sewer complete in place	$24.00	$25.65	$27.80	$29.15	$30.10	$35.00	$30.90	$32.29	$34.00	$34.50	$39.40	$45.00
4600 lin.ft. 6 ft. circular brick sewer complete in place	27.31	28.30	27.80	31.00	.....	35.00	.....	32.29	35.00	33.95	41.30	45.00
4600 lin.ft. 6 ft. 6 in. circular brick sewer complete in place	28.45	28.50	27.80	32.00	.....	30.50	.....	32.29	36.00	34.50	43.50	45.00
4600 lin.ft. 6 ft. 6 in. x 5 ft. 6 in. section brick sewer in place	26.47	29.11	27.80	35.00	.....	35.00	.....	33.29	36.00	34.50	50.00	45.00
1 drop manhole and overflow chamber	4500.00	3500.00	3200.00	3500.00	2000.00	2400.00	5000.00	7000.00	3000.00	6500.00	4500.00	10000.00
Extended totals	$114,900	$121,490	$131,080	$137,590	$140,460	$142,700	$147,140	$155,534	$159,400	$162,670	$185,740	$208,000

Section No. 2	A	B	C	E	F	G	H	I	J	K
3750 lin.ft. 5 ft. 6 in. circular brick sewer complete in place	$25.45	$26.23	$31.50	$30.50	$35.00	$30.90	$37.29	$34.00	$34.50	$39.40
3750 lin.ft. 6 ft. circular brick sewer complete in place	28.56	27.00	31.50	.....	35.00	.....	37.29	35.00	33.95	41.30
3750 lin.ft. 6 ft. 6 in. circular brick sewer complete in place	29.70	28.35	31.50	.....	30.50	.....	37.29	36.00	34.50	43.50
3750 lin.ft. 6 ft. 6 in. x 5 ft. 6 in. section brick sewer in place	27.72	29.11	31.50	.....	35.00	.....	38.29	36.00	34.50	50.00
1 manhole "B"	6000.00	2800.00	3500.00	2000.00	2400.00	5000.00	6000.00	3450.00	6500.00	4500.00
1 manhole "C"	100.00	100.00	250.00	350.00	150.00	1000.00	200.00	850.00	300.00	1000.00
Extended totals	$101,537	$101,262	$121,875	$116,725	$116,925	$121,875	$146,037	$131,800	$134,112	$153,250

SEWER EXTENSIONS—SCARSDALE, N. Y. (continued)

DIVISION C	C	G	H	I	J	L	N	P
1800 lin. ft. 10-in. vitrified sewer, 6 ft. deep or less	$0.77	$0.80	$0.79	$0.50	$1.00	$0.64	$0.75	$0.80
1200 lin. ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.96	.90	1.10	.55	1.20	.80	1.00	.95
560 lin. ft., 8 ft. to 10 ft. deep, inc. 10 ft.	1.26	1.00	1.50	.60	1.25	1.10	1.10	1.15
350 lin. ft., 10 ft. to 12 ft. deep, inc. 12 ft.	1.49	1.20	2.00	1.00	1.35	1.30	1.50	1.40
300 lin. ft., 12 ft. to 14 ft. deep, inc. 14 ft.	1.70	1.50	2.50	1.10	1.80	1.52	1.65	1.70
150 lin. ft., 14 ft. to 16 ft. deep, inc. 16 ft.	2.40	1.50	3.50	1.25	1.95	1.75	2.00	2.10
200 lin. ft., 16 ft. to 18 ft. deep, inc. 18 ft.	2.95	2.00	4.50	1.50	2.70	2.00	2.10	2.60
150 lin. ft., 18 ft. to 20 ft. deep, inc. 20 ft.	3.70	2.50	5.50	1.75	3.30	2.30	2.60	3.20
250 lin. ft., 20 ft. to 22 ft. deep, inc. 22 ft.	4.40	4.00	7.00	1.90	4.50	3.50	3.00	3.90
250 lin. ft., 22 ft. to 24 ft. deep, inc. 24 ft.	5.30	5.00	9.00	2.50	7.50	5.00	3.50	4.70
100 lin. ft., 24 ft. to 26 ft. deep, inc. 26 ft.	5.75	6.00	9.00	2.75	9.50	6.00	3.75	5.60
60 lin. ft., 26 ft. to 28 ft. deep, inc. 28 ft.	6.50	8.00	9.00	3.00	10.50	6.40	5.00	6.60
10 lin. ft., 28 ft. to 30 ft. deep, inc. 30 ft.	7.70	8.00	9.00	3.50	11.00	7.00	5.50	8.00
600 lin. ft., 8-in. vitrified sewer, 6 ft. deep or less	.71	.70	.75	.47	.70	.60	1.00	.70
3500 lin. ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.88	.80	1.10	.53	.82	.69	1.25	.80
5000 lin. ft., 8 ft. to 10 ft. deep, inc. 10 ft.	1.19	.90	1.50	.55	.95	.83	1.60	1.00
800 lin. ft., 10 ft. to 12 ft. deep, inc. 12 ft.	1.39	1.00	1.25	.75	1.15	1.02	1.75	1.25
250 lin. ft., 12 ft. to 14 ft. deep, inc. 14 ft.	1.60	1.20	2.00	.99	1.50	1.12	2.00	1.60
80 lin. ft., 14 ft. to 16 ft. deep, inc. 16 ft.	2.30	1.50	2.50	1.21	2.00	1.27	2.25	2.00
10 lin. ft., 16 ft. to 18 ft. deep, inc. 18 ft.	2.90	2.00	3.00	1.51	2.40	1.67	2.50	2.50
200 Ys on 10-in. sewer (over sewer price)	.47	.60	1.00	.90	.70	1.68	.90	.80
500 Ys on 8-in. sewer (over sewer price)	.35	.50	1.00	.70	.60	1.12	.65	.60
60 Y-extensions (over Y price)	1.25	.60	1.25	1.00	1.00	1.88	.20	2.00
90 additional 2-ft. pieces, 6-in. pipe	.34	.30	.75	.40	.50	.25	.20	.50
72 lin. ft. 10-in. iron pipe sewer (over vitrified price)	.92	2.50	3.50	2.00	1.10	3.60	.60	.80
24 lin. ft. 8-in. iron pipe sewer (over vitrified price)	.69	2.00	2.50	1.75	.90	3.00	.55	.60
7 manholes, 6 ft. deep or less	45.00	90.00	50.00	40.00	42.00	35.00	60.00	45.00
41 manholes, 6 ft. to 8 ft. deep, inc. 8 ft.	48.00	100.00	60.00	45.00	50.00	44.00	65.00	60.00
110 lin. ft. manholes depth over 8 ft. (necks)	3.75	4.00	5.00	5.00	2.50	4.00	11.00	4.00
24 lin. ft. manholes depth below 16 ft. (13 in. walls)	6.00	8.00	15.00	7.00	5.00	5.25	15.00	7.00
10 spurs in manholes, 6-in.	.40	.30	1.00	1.00	.50	.25	.50	.60
3 sewer drop connections, 8-in.	10.00	5.00	25.00	25.00	12.00	6.50	7.00	10.00
1 lamp-hole on 8-in. sewer	10.00	20.00	15.00	50.00	10.00	7.50	9.00	10.00
8 flush-tanks	90.00	90.00	125.00	100.00	82.00	190.00	160.00	85.00
5000 yd. rock excavation	3.10	3.00	3.00	3.00	2.75	3.15	2.70	3.00
Contingent Extras								
80 yd. concrete not shown on details	6.00	6.00	6.00	7.00	7.00	6.00	10.00	8.00
100 M. ft. b.m. sheeting and shoring left in	20.00	1.00	40.00	5.00	35.00	40.00	45.00	35.00
3 M ft. b.m. flooring or foundation lumber	40.00	30.00	60.00	10.00	35.00	40.00	40.00	40.00
1000 ft. b.m. forms for concrete	90.00	30.00	60.00	10.00	35.00	40.00	15.00	30.00
100 yd. earth excavation not included otherwise	2.00	1.00	.40	.60	.50	.68	1.00	.80
50 yd. gravel backfilling	2.50	2.00	1.75	2.00	2.00	2.00	2.00	3.50
100 lin. ft. 6-in. vitrified house sewer 6 ft. deep or less	.80	.60	.40	.35	.60	.48	.50	.50
100 lin. ft., 6 ft. to 8 ft. deep, inc. 8 ft.	.90	.70	.55	.50	.80	.64	.60	.60
100 lin. ft., 8 ft. to 10 ft. deep, inc. 10 ft.	1.00	.80	.75	.60	1.00	.76	1.00	.80
100 lin. ft., 10 ft. to 12 ft. deep, inc. 12 ft.	1.20	1.00	1.50	.70	1.20	.96	1.25	1.05
50 lin. ft., 12 ft. to 14 ft. deep, inc. 14 ft.	1.50	1.00	2.00	.80	1.50	1.10	1.60	1.40
30 yd. rock excavation in house sewer trench	4.00	4.00	3.00	3.25	3.00	3.15	2.75	3.00
Extended totals	$43,589	$40,481	$53,074	$31,964	$43,205	$42,483	$48,924	$43,336

HUNTLEY SEWER SYSTEM NO. 2—SYRACUSE, N. Y.

✚Bids were received July 12 for the construction of the Huntley Sewer System No. 2 from (A) J. C. SCHRADE, Brooklyn (awarded contract, using reinforced concrete); (B) Mondo Construction Co., Syracuse; (C) Bonn & Marnell, Syracuse; (D) Frank George, White Plains; (E) Samuel Bonn, Syracuse; (F) F. S. Sposato, Syracuse; (G) Grant, Smith & Co. & Locher, Rome; (H) Hookway Construction Co., Syracuse; (I) Charles Ippolito, Orange, N. J. The item bids were as follows:

Reinforced concrete	A	B	C	D	E	F	G	H	I
1250 lin.ft. 66-in. storm sewer	$9.25	$7.90	$7.55	$6.99	$7.25	$6.75	$7.86	$9.00	$11.80
640 lin.ft. 60-in. storm sewer	7.15	7.00	6.07	5.90	5.90	5.65	6.26	7.50	10.29
660 lin.ft. 45-in. storm sewer	4.60	5.50	4.41	4.17	4.65	4.25	4.57	5.50	8.03
860 lin.ft. 42-in. storm sewer	4.15	5.20	4.12	3.84	4.25	4.10	3.83	5.50	7.62
920 lin.ft. 36-in. storm sewer	3.85	4.50	3.71	3.71	3.80	4.85	3.34	4.75	6.22
1600 lin.ft. 33-in. storm sewer	2.95	3.25	2.95	2.89	2.80	3.00	2.93	3.75	6.11
2930 lin.ft. 27-in. storm sewer	2.65	2.60	2.55	2.45	2.35	2.40	2.59	3.00	5.38
Brick									
1250 lin.ft. 66-in. storm sewer	16.75			11.92		10.95	12.94		21.81
640 lin.ft. 60-in. storm sewer	14.75			10.51		10.00	11.54		19.72
660 lin.ft. 45-in. storm sewer	10.00			5.49		5.75	8.93		13.18
860 lin.ft. 42-in. storm sewer	9.00			5.30		5.62	7.62		13.00
920 lin.ft. 36-in. storm sewer	8.90			5.11		6.02	6.40		11.16
1600 lin.ft. 33-in. storm sewer	7.50			4.29		4.55	5.72		10.89
2930 lin.ft. 27-in. vitrified pipe storm sewer	3.00			2.83		2.40	3.73		5.70
Monolithic concrete									
1250 lin.ft. 66-in. vitrified pipe storm sewer	11.75			9.86		9.63	11.22		15.94
640 lin.ft. 60-in. vitrified pipe storm sewer	9.65			8.53		8.50	8.88		13.09
660 lin.ft. 45-in. vitrified pipe storm sewer	7.10			5.46		5.59	5.59		11.39
860 lin.ft. 42-in. vitrified pipe storm sewer	6.85			5.19		5.22	4.68		11.87
920 lin.ft. 36-in. vitrified pipe storm sewer	5.75			4.63		5.45	3.92		9.73
1600 lin.ft. 35-in. vitrified pipe storm sewer	5.40			3.66		3.90	3.80		10.11
2930 lin.ft. 27-in. vitrified pipe storm sewer	5.25			3.12		3.07	3.24		8.58
Vitrified pipe									
1080 lin.ft. 24-in. storm sewer	1.65	1.25	1.74	2.01	1.55	2.50	2.27	1.90	3.93
590 lin.ft. 22-in. storm sewer	1.60	1.10	1.74	1.86	1.50	2.45	2.23	1.90	3.53
1680 lin.ft. 20-in. storm sewer	1.35	1.00	1.40	1.60	1.25	2.00	2.00	1.50	3.35
1020 lin.ft. 18-in. storm sewer	1.10	1.00	1.25	1.36	1.10	1.50	1.60	1.40	3.22
2380 lin.ft. 15-in. storm sewer	.95	.85	1.09	1.25	1.00	1.20	1.45	1.10	2.84
4460 lin.ft. 12-in. storm sewer	.40	.60	.87	.84	.75	.95	1.02	.80	2.12
80 lin.ft. 24-in. sanitary sewer	3.35	1.50	2.01	2.38	3.27	3.00	3.54	4.00	1.59
820 lin.ft. 22-in. sanitary sewer	3.20	1.40	1.92	2.14	2.40	2.00	1.52	2.50	1.52
120 lin.ft. 20-in. sanitary sewer	2.75	1.40	1.98	2.55	3.29	3.50	1.30	3.00	1.34
950 lin.ft. 18-in. sanitary sewer	1.80	1.25	1.48	1.35	1.60	1.95	1.20	1.75	1.22
5750 lin.ft. 12-in. sanitary sewer	.90	1.00	1.05	1.15	1.10	1.20	.78	1.00	.70
6450 lin.ft. 10-in. sanitary sewer	.55	.60	.93	1.10	.99	1.10	.56	.95	.65
5880 lin.ft. 8-in. sanitary sewer	.45	.55	.93	.85	.90	.90	.67	.85	.55
12,100 lin.ft. 6-in. sanitary laterals	.40	.40	.50	.40	.39	.50	.61	.45	.50
1700 lin.ft. 10-in. storm laterals	.50	.60	.50	.59	.60	.75	.78	.65	.50
39 line manholes, 3x4 ft.	40.00	55.00	40.00	37.50	45.00	50.00	62.10	38.00	38.00
8 line manholes, 4x4 ft.	45.00	60.00	55.00	58.25	65.00	53.00	71.20	45.00	45.00
6 line manholes, Type "L"	60.00	160.00	80.00	71.50	55.00	60.00	85.00	70.00	50.00
25 double line manholes	75.00	150.00	60.00	72.00	90.00	80.00	166.00	70.00	60.00
3 junction manholes	60.00	60.00	60.00	58.75	75.00	55.00	97.00	70.00	70.00
17 double junction manholes, Type "O"	140.00	150.00	85.00	88.00	255.00	110.00	135.00	120.00	100.00
9 double junction manholes, Type "D"	175.00	150.00	125.00	137.00	85.00	95.00	170.00	125.00	100.00
2 double drop junction manholes	200.00	200.00	155.00	180.00	110.00	90.00	220.00	140.00	100.00
1 special manhole No. 8	330.00	200.00	160.00	300.00	525.00	140.00	500.00	120.00	150.00
6 large catch basins	40.00	60.00	35.00	55.00	37.00	40.00	54.00	40.00	40.00
75 small catch basins	25.00	23.00	25.00	25.00	25.00	30.00	41.50	30.00	32.00
1 connection existing sewer	500.00	5.00	25.00	15.00	35.00	30.00	25.00	100.00	50.00
2 connection existing manholes	50.00	5.00	5.00	5.00	5.00	10.00	25.00	20.00	50.00
5 cu.yd. brick or concrete piers	15.00	8.00	5.00	7.50	15.00	9.00	13.20	8.00	18.00
Extended totals reinforced concrete sewer	$82,731	$84,305	$85,305	$85,921	$86,957	$92,100	$92,165	$95,152	$126,743
Extended totals brick sewer	$117,657			$101,802		$105,988	$118,651		$166,335
Extended totals monolithic concrete sewer	$104,714			$97,245		$103,327	$103,276		$158,476

Contracts to Be Let

Bids received until July 26, 1915.

Highway Work

Albany, N. Y.

State of New York, Office of the State Commission of Highways, Albany, N. Y.—Pursuant to the provisions of Chapter 30, Laws of 1909, as amended by Chapter 646, Laws of 1911, and Chapter 80, laws of 1913, sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Monday, July 26th, 1915, for the construction of the following highways:

Road No.	County	Name of Road	Approx. length
5498	Orange	Cornwall-West Point, Parts 1 and 2	4.03
5573	Orange	Cornwall-West Point, Part 3	1.27

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of Division Engineer Bertrand H. Wait, Columbus Institute, 11 Washington Street, Poughkeepsie, N. Y.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

Proposals for each contract must be presented in a separate sealed envelope endorsed on the outside with the number of the road for which the proposal is made. Each proposal must be accompanied by a draft or certified check issued by a National or State bank in good credit within the State and payable at sight to the order of the State Commission of Highways for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies.

This draft or check will be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for fifty per cent. of the amount of the contract, such bond to be executed by a surety company to be approved by the Commission, or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until Aug. 7, 1915.

Stratford Avenue Bridge and Approaches

Bridgeport, Connecticut.

Sealed proposals addressed to the Stratford Avenue Bridge Commission, Bridgeport, Conn., will be received at the office of the Board of Contracts and Supplies, City Hall, Bridgeport, Conn., until twelve o'clock noon on the seventh day of August, 1915, and at that time will be publicly opened and read. The work involved includes the construction of a reinforced-concrete girder bridge, with a double leaf bascule channel span and all substructures and approaches. The bridge will have a roadway 54 ft. clear of the curbs, two sidewalks 13 ft. wide, length of bridge from abutment to abutment being 499 ft.

Complete data, plans, specifications, etc., can be seen after July 15 in the office of the Board of Contracts and Supplies, City Hall, Bridgeport, Conn., and in the office of the Consulting Engineers, Greiner & Whitman, Fidelity Building, Baltimore, Md. Contractors can obtain complete sets for $5.00 per set upon application to the Consulting Engineers, the sets thus secured to remain the property of the purchaser without refund.

A certified check for ten thousand dollars must accompany each bid. Contractors will be required to furnish satisfactory evidence of their experience in doing similar work and their ability to finance the work, and the successful contractor will be required to furnish a bond to the full amount of the contract price. The Commission reserves the right to reject any or all proposals, or parts of proposals, or make the award for the entire work or such portion thereof as may be considered best for the interests of the city.

Bids received until Aug. 31, 1915.

Passaic Valley Sewerage Commissioners

SUPERSTRUCTURE FOR NEWARK BAY PUMPING STATION

NOTICE TO CONTRACTORS.

Notice is hereby given that the Passaic Valley Sewerage Commissioners have designated Tuesday, the thirty-first day of August, nineteen hundred and fifteen, at two o'clock in the afternoon, as the time when they will meet at their usual place of meeting, Essex Building, Clinton Street, Newark, New Jersey, to receive proposals, in writing, for the construction of Superstructure and appurtenances for Newark Bay Pumping Station, the said work being Part of Section 5, of the Passaic Valley Sewerage Works.

Particulars that may enable Contractors to judge of the character of the work are given below:

The work to be done consists of the construction and completion of the Superstructure of Newark Bay Pumping Station and all appurtenances, comprising, in part, of Engine-Room, Screen-House, Administration Building, Boiler-House, Coal-House, Chimney, and including Crane runways, Economizer support, steel water storage tank, and all plumbing, electric light wiring and fixtures, water-supply piping, electric conduits, interior and exterior decorations and all appurtenant work.

A certified check for two thousand ($2000.00) dollars (drawn on a National Bank or Trust Company, established in the City of New York, or in the State of New Jersey, within Passaic Valley Sewerage District), must accompany the bid. A bond in the sum of thirty thousand ($30,000.00) dollars will be required for the further performance of the contract.

Drawings, form of contract and specifications, and blank form for proposal, may be obtained at the Commissioners' office from William M. Brown, Chief Engineer.

The Commissioners reserve the right to reject any or all bids.

PASSAIC VALLEY SEWERAGE COMMISSIONERS.
JOSEPH H. QUIGG, Clerk.
July 13, 1915.

Bids received until Aug. 3, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Tuesday, the 3rd day of August, 1915, for the repair of highways in the following counties:

Broome (one contract—resurfacing); Chemung (one contract—resurfacing); Chenango (one contract—resurfacing); Clinton (one contract—resurfacing); Columbia (one contract—surface treatment and resurfacing); Dutchess (two contracts—surface treatment and resurfacing); Erie (one contract—resurfacing); Herkimer (one contract—surface treatment); Monroe (one contract—resurfacing); Montgomery (one contract—surface treatment); Otsego (one contract—resurfacing); Putnam (one contract—surface treatment and resurfacing); St. Lawrence (three contracts—surface treatment and resurfacing); Schoharie (one contract—retaining walls); Steuben (one contract—resurfacing); Sullivan (one contract—resurfacing); Tompkins (one contract—surface treatment); Warren (one contract—surface treatment); Westchester (two contracts—surface treatment and resurfacing).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry.—This company has applied to the Council of Wakefield, Mass., for a franchise to improve its lines on Main St. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

Massachusetts—Holyoke St. Ry.—This company has applied to the Council of Amherst, Mass., for a franchise to extend its line on South Pleasant St. Louis D. Pellissier, Holyoke, is Vice-Pres., Gen. Mgr. and Pur. Agt.

Connecticut—Connecticut Co.—This company plans to reconstruct its line on North Ave., from North Main St. to Trumbull Rd., Bridgeport, Conn. Charles H. Chapman, Bridgeport, is Mgr.

New York—According to press reports Charles W. Morse and associates of the Hudson Navigation Co. are organizing a company for the purpose of constructing a railway on Front St., Troy, N. Y.

New York—International Ry. Co.—This company plans to extend its lines on Michigan Ave. and Ohio St., Buffalo, N. Y. J. C. Sheldon, Buffalo, is Pur. Agt.

New Jersey—Morris County Traction Co.—This company is interested in the organization of a company for the purpose of constructing an electric railway from Landing to Lake Hopatcong, through Port Morris to Netcong, N. J.

Pennsylvania—A movement is being agitated for the construction of a railway from Sinking Spring to Ephrata, where it will connect with lines operating to Lancaster and Lebanon.

✚**Pennsylvania**—Shenandoah, Frackville & Pottsville Ry.—This company has awarded the contract to J. B. TREXLER, Reading, for the construction of a railway connecting Frackville with St. Clair, about five miles.

Pennsylvania—South Brownsville St. Ry.—This company is being organized for the purpose of constructing an electric railway from Brownsville to South Brownsville, Penn. W. E. Moore, H. L. Mitchell, J. S. Jenks and E. T. Brashears are interested.

Virginia—Louisville & Nashville R.R.—This company contemplates the construction of an 18-mile line from Blackley, Va., to the headwaters of Rockhouse Creek. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

Virginia—York & Rappahannock River Ry.—This company has applied for a charter to construct a railway from West Point to Urbanna, Va., about 17 miles. R. S. Bristow, Urbanna, is Pres., F. H. Sprague, West Point, Vice-Pres. and W. H. Ryland, Urbanna, Secy.

West Virginia—Fairmont & Helen's Run R.R.—This company has been incorporated to construct a railway from the mines of the Consolidated Coal Co. on Helen's Run to the tracks of the Baltimore & Ohio R.R., near Fairmont, W. Va. The incorporators are: Carl R. Gray, M. C. Byers, C. H. Porter and H. R. Pratt.

✚**West Virginia**—Ohio Valley Electric Ry.—The contract has been awarded by this company to the BRUBAKER CONSTRUCTION CO. for the construction of an extension to the line on 12th Ave., Huntington.

Georgia—Pelham & Havana R.R.—Surveys have been completed by this company for the extension of its line from Darsey, Ga., to Havana, Fla., about five miles. J. M. Wilkinson, Valdosta, is Pres. Noted June 22.

Alabama—The Alabama Power Co. contemplates the extension of the street car lines of the Anniston Electric & Gas Co., which it recently acquired, from Anniston to Blue Mountain. A. L. Kenyon, Anniston, is Mgr.

Tennessee—Nashville, Chattanooga & St. Louis Ry.—Plans are being considered by this company for the construction of a three-mile extension from Tottys to Valley, Tenn. H. McDonald, Nashville, is Ch. Engr.

Ohio—Cleveland Ry.—This company will extend its line on Euclid Ave. from 22nd to 40th St., Cleveland, Ohio. George L. Radcliffe, Cleveland, is Gen. Mgr.

Ohio—East Village & Harbor Traction Co.—Surveys are being made by this company for the construction of a railway in Ashtabula.

Ohio—Lorain, Ashland & Southern R.R.—According to press reports this company is making preliminary arrangements for the extension of its line from Custaloga to Big Prairie, Ohio. John Lake, Big Prairie, is interested. Noted June 10.

Indiana—Ft. Wayne & Northern Indiana Traction Co.—Preliminary arrangements are being made by this company for the reconstruction of its line on State Blvd., Ft. Wayne, Ind. Samuel W. Greenland, Ft. Wayne, is Gen. Mgr. and Pur. Agt. Noted May 20.

Michigan—Detroit, Pontiac & Owosso Ry.—This company has been granted a franchise to construct a railway in Pontiac, Mich. This is part of a proposed railway which will connect Owosso and Detroit. George H. Lau, Detroit, is interested. Noted June 24.

Iowa—The Des Moines & Southern R.R.—This company will soon start work on the construction of a five-mile railway from Swanwood Junction to Des Moines. C. H. Crooks is Gen. Mgr.

Minnesota—Duluth St. Ry.—Plans are being prepared by this company for the extension of its line from West Duluth to New Duluth, Minn. Herbert Warren is Gen. Mgr.

Arkansas—A. C. Veach, Gravette, Ark., is interested in the construction of an electric railway from Melbourne, Ark., to a connection with the St. Louis, Iron Mountain & Southern R.R., about 12 miles.

Texas—Plans are being considered for merging the properties of the Texas Traction Co. and the Southern Traction Co. It is planned to extend the line of the latter company from Waco to San Antonio.

Texas—Corpus Christi Traction Co.—This company, recently incorporated, will construct a system of interurban electric railways to radiate out of Corpus Christi.

Oklahoma—Plans are being prepared for the construction of an electric railway from Henryetta to Denver, about three miles. Z. T. Sweeney, Columbus, Ind., is interested.

Oregon—At a recent election held at Grants Pass the citizens voted in favor of ratifying the contract by which Twohy Bros., Portland, will take over ten miles of municipal constructed railroad and continue the line to the coast.

✚**Oregon**—St. Helens Lumber Co.—It is reported that this company has awarded the contract for the construction of four miles of railway to the ELLIOTT CONSTRUCTION CO., Portland.

Oregon—Southern Oregon Traction Co.—This company has purchased the steam railway from Medford to Jacksonville, Ore., and will electrify it. S. S. Bullis, Medford, is interested.

California—According to press reports surveys are being made for the construction of a railway from Eureka, Calif., to Klamath Falls, Ore.

British Columbia—Surveys have been made for the construction of a railway from Kittamaat Arm, B. C. to Prince Albert by way of Ft. St. John and Peace River Landing. D. A. Thomas, Wales, England, is interested.

LIGHT, HEAT AND POWER

Dedham, Mass.—(Official)—Bids will be received by the Superintendent of Schools, Town Hall, until 4 p.m., Aug. 3, for the installation of a heating and ventilating system in the new high school building. Samuel H. Capen is Chn., High School Bldg. Com.

✚**Buffalo, N. Y.**—The contract for the installation of a heating system in the new City Hospital has been awarded to FITZPATRICK & HOEPNER, Cleveland, Ohio, at $67,929; the contract for the electrical work was awarded to the BISON ELECTRIC CO., Buffalo, at $17,328. See item under "Buildings."

Ellisburg, N. Y.—Frank E. Hamm will construct an electric-light plant and system in Ellisburg.

La Fargeville, N. Y.—The La Fargeville Electric Light Co. has been granted permission by the Public Service Commission to construct electric-light plants in the towns of Theresa and Orleans. Noted July 22.

Perry, N. Y.—The Perry Electric Light Co. plans to construct six miles of transmission line between Perry and Silver Springs, also nine miles between Perry and Warsaw.

Bloomfield, N. J.—The Westinghouse Lamp Co. plans to construct an addition to its power house in the Watsessing Section.

✚**Newark, N. J.**—The Public Service Electric Co. has awarded the contract for the construction of smoke flues at its new power plant at Point-No-Point to the STEVENS-AYLESWORTH CO., 90 West St., New York, N. Y. The estimated cost is $12,250.

Leonardtown, Md.—The construction of a municipal electric-light plant is being considered by the City Commissioners.

Guntersville, Ala.—The construction of a steam driven power plant in Guntersville is contemplated by the Alabama Power Co. of Birmingham. The company also plans to build a transmission line between Gadsen and Guntersville to furnish electricity to Albertville, Boaz and other towns.

Hazard, Ky.—It is reported that E. C. Lilly, Bluefield, Va., and D. Terpstra, Norton, Va., are considering plans for the construction of an electric generating plant to supply electricity to the coal mines in the Hazard field.

Cincinnati, Ohio—Bids will be received until noon, Aug. 3, by Philip Fosdick, Dir. of Pub. Ser., City Hall, for the installation of a heating and ventilating system in the public bath house at Spring and East 13th St.

✚**Madison, Wis.**—The Madison Gas & Electric Co. has awarded the contract for the construction of a brick power transmission station on Blunt St. to T. C. McCARTHY. The estimated cost is $15,000.

Milwaukee, Wis.—Work will soon be started on the construction of a power plant on Greenfield St. for the Milwaukee Coke & Gas Co. The estimated cost is $12,000.

Bancroft, Iowa—At a recent election the citizens voted in favor of issuing $10,000 in bonds. The proceeds will be used for the construction of a municipal electric-light plant .

Nevada, Iowa—A 13,500-volt, 3-phase transmission line will be constructed from Nevada into Colorado by the Iowa Ry. & Lighting Co. They will also build a sub-station and distribution system in Colorado.

✚**Thompson, Iowa**—The contract for the construction of an electric-light plant has been awarded to the STRONG ELECTRIC CO., Des Moines.

Hardwick, Minn.—At a recent election the citizens voted in favor of issuing $5000 in bonds, the proceeds of which will be used for improving the village power plant.

Hastings, Minn.—Bids will be received by P. A. Hoffman, County Audr., until 11 a.m., Aug. 16, for furnishing two Kewanee locomotive fire box low pressure steam heating boilers or equal thereof, to be installed in the courthouse.

Rochester, Minn.—Bids will soon be received for the construction of a new municipal electric-light plant. The estimated cost is $110,000. A. F. Wright is City Clk.

Attica, Kan.—Plans are being prepared for the construction of an electric-light plant. The estimated cost is $15,000. F. H. Kelburn, Woodward, Okla., is Engr.

Haviland, Kan.—The citizens have voted in favor of issuing $7000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant.

Parker, Kan.—The citizens have voted to issue $5000 in bonds, the proceeds of which will be used for the installation of a municipal-electric light plant. C. O. Conrad is City Clk.

Sharon Springs, Kan.—Plans are being prepared for remodeling the lighting plant. The estimated cost is $10,000. W. E. Hulse & Co., Hutchinson, is Engr.

Osceola, Neb.—It is reported that the Osceola & Shelby Electric-Light, Heat & Power Co. plans to construct six miles of transmission lines and to purchase additional electrical appliances.

Billings, Mont.—The Montana Power Co. will construct an addition to its plant at an estimated cost of $20,000.

Campbell, Mo.—It is reported that the Campbell Public Service Co. plans to construct an addition to its power house and to purchase a new boiler and a Corliss steam or oil engine.

Brandon, Tex.—The Texas Light & Power Co. of Dallas will install an electric-lighting system in Brandon. The transmission line will be extended from Milford to Brandon.

Seguin, Tex.—Bids will be received until Aug. 10 by the Seguin Electric-Light & Power Co. for furnishing power plant equipment, including water wheels, transmission machinery, generator and switchboards. Owen A. Gafford is Mgr.

Grants Pass, Ore.—The citizens have voted in favor of granting a franchise to the Rogue River Public Service Corporation for the construction of a light and power plant.

Portland, Ore.—Bids will be received by R. H. Thomas, Clk., 401 Court House, until 4 p.m., Aug. 5, for the installation of a heating and ventilating system in the Franklin High School.

Exeter, Ont.—The rate-payers have voted to appropriate $20,000 for the installation of a hydro-electric system.

Otterville, Ont.—The Town Council is considering the installation of a hydro-electric system.

Petrolia, Ont.—An appropriation of $35,000 has been voted by the rate-payers for the installation of a hydro-electric plant and distribution system. Noted June 10.

BRIDGES

Montpelier, Vt.—Bids will be received until 7:30 p.m., Aug. 2, by J. M. Bontwell, Mayor, for the construction of a steel girder bridge with a concrete floor at State St. Noted July 8.

✚**Salem, Mass.**—The Salem Rebuilding Commission has awarded the contract for the construction of a culvert and retaining wall to PETER BOMPIANI & CO., 14 Federal St., Boston, at $8881.

✚**Hartford, Conn.**—The Board of Contract and Supply has awarded the contract for the construction of a reinforced-concrete beam bridge on Newfield Ave. to CHARLES A. SIBLEY, 902 Chapel St., New Haven, at $6726.

Albany, N. Y.—The Delaware & Hudson Co. has submitted plans for the construction of a bridge over Island Creek to the Public Service Commission. F. Pond is Bridge Engr. Noted June 24.

Cheektowga, N. Y.—(Forks post office)—The Public Service Commission, Buffalo, has appropriated $100,000 for the construction of a viaduct at Harlem Ave. Devoe P. Hodson is Comr.

Olean, N. Y.—It is reported that the city will construct a bridge over the Allegany River to connect Olean with South Olean. H. E. Bunce is City Engr.

Chatham, N. J.—Philip A. Hickey, Somerville, at $7333, submitted the lowest bid for the construction of a new bridge. He will probably be awarded the contract.

✚**New Brunswick, N. J.**—(Official)—The Board of Chosen Freeholders of Middlesex County has awarded the contract for the construction of a reinforced-concrete bridge over the South River on the South Amboy-New Brunswick Rd. to the GENERAL CONTRACTING & ENGINEERING CO., 29 Rector St., New York, N. Y., at $66,714. Noted July 8 and 22.

✚**Pine Brook, N. J.**—The Board of Chosen Freeholders of Morris and Essex Counties has awarded the contract for the construction of a bridge over the Passaic River at Pine Brook to the AVERILL-MATTHEWS CO., Clinton St., Newark, at $39,860. Noted July 8 and 22.

Trenton, N. J.—Bids will be received by the Board of Chosen Freeholders of Mercer County until 2:30 p.m., Aug. 3, for the following bridge work: Construction of a steel truss bridge with reinforced-concrete retaining walls over Doctor's Creek, Hamilton Township; reinforced-concrete bridge over Beedens Brook, Rosedale-Mt. Rose Rd.; bridge over Assunpink Creek, crossing Nottingham Way. Theodore Tobish is County Engr. Noted May 27.

★**Media, Penn.**—(Official)—Bids will be received until 10 a.m., Aug. 2, by the Commissioners of Delaware County for the construction of a reinforced-concrete bridge on Glenolden Ave. over Muckinapatus Creek, Glenolden Borough and Darby Township.

★**Philadelphia, Penn.**—(Official)—Bids will be received until noon, Aug. 2, by M. L. Cooke, Dir. Dept. of Public Works, City Hall, for the construction of a bridge on line of Cayuga St., A. St., and one on line of Holme Ave. over Pennypack Creek. Bids will also be received on Aug. 4 for a bridge on line of Whitby Ave. over Philadelphia & Baltimore Washington R.R. and one on Front St. over the Municipal Hospital Drive.

✚**Pittsburgh, Penn.**—The County Commissioners have awarded the contracts for bridge work as follows: reinforced-concrete arch in Richland Township to JOHN F. HOWLEY & CO., 237 Fourth Ave., Pittsburgh, at $5887; construction of reinforced-concrete arch in Mount Lebanon Township and extension of Arch-Bridge No. 1, Kilbuck Township, Glenfield Borough to the ADAM LAIDLOW CO., Bessemer Bldg., Pittsburgh, at $9547; diversion of Pine Creek, existing County Bridges Nos. 17 and 18 in Shaler Township to JOHN F. BARR, 237 Fourth Ave., Pittsburgh, at $11,290. J. G. Gilfillan, Room 308, Courthouse, is County Engr. Noted July 15.

Reading, Penn.—E. B. Ulrich, City Engr., has approved the plans submitted by the Philadelphia & Reading Ry. for the rebuilding of the three bridges over the Lebanon Valley Railroad tracks at Center Ave. The estimated cost is $80,000. C. Dillenback, Reading, is Engr. of Bridges and Bldgs.

Sharon, Penn.—It is reported that the contract will soon be awarded for the construction of a bridge over the Shenango River at State St. for the county, city and the street railway company. The estimated cost is $40,000.

✚**West Milton, Penn.**—The Philadelphia & Reading Ry. has awarded the contract for the construction of the substructure and masonry of a new bridge to replace the old structure to the ROBERT GRACE CONTRACTING CO., Pittsburgh. The estimated cost is $300,000. S. T. Wagner, Philadelphia, is Ch. Engr. Noted July 15.

Wilmington, Del.—Plans have been submitted to the War Department for the construction of a lift pattern bridge, 300 ft. long, across Lewes Canal connecting Delaware Bay with Rehoboth Bay. This bridge will carry the tracks of the Delaware, Maryland & Virginia R.R. Co. H. R. Leonard, Philadelphia, Penn., is Bridge Engr.

Leesburg, Va.—(Official)—Bids will be received until noon, Aug. 5, at the Clerk's Office for the construction of two reinforced-concrete bridges, one over Limestone Creek and the other over James Creek. The plans call for a 62-ft. 6-in. bridge with two 30-ft. spans over Limestone Creek and a 45-ft. bridge with two 20-ft. spans over James Creek. G. P. Coleman, Richmond, is State Highway Comr.

Radford, Va.—The construction of a highway bridge across the New River is contemplated by the city and the County Commissioners. William Ingles is Chn. of Com.

Grimesland, N. C.—Bids will be received until Aug. 2 by the Commissioners of Pitt County for the construction of a reinforced-concrete bridge across Chicod Creek near Grimesland.

Leesburg, Ga.—At a recent election the citizens voted in favor of the question of issuing $7500 in bonds, the proceeds of which will be used for the construction of a bridge.

Sardis, Miss.—Bids will be received by R. W. Draper, County Clk., until Aug. 2, for the construction of two steel bridges and one trestle with concrete abutments.

Lake Charles, La.—Bids will be received until 11 a.m., Aug. 3, by E. C. House, Clk. of Police Jury, for the construction of a steel draw bridge over Bayou Choupique on the Lockport-Ged Highway. F. H. Frankland is Bridge Engr.

Chattanooga, Tenn.—The Hamilton County Court has authorized a bond issue of $400,000 for the construction of an additional bridge across the Tennessee River.

Covington, Tenn.—An appropriation of $20,000 has been voted by the Tipton County Quarterly Court toward the construction of a bridge across Big Hatchie River. Lauderdale County will also contribute $20,000 toward the cost.

Dandridge, Tenn.—The Commissioners of Jefferson County Court have passed an ordinance appropriating $5000 for the construction of a bridge across the Houston River between Jefferson and Grainger Counties. The estimated cost is $15,000.

Cleveland, Ohio—A resolution authorizing a bond issue of $100,000 to provide for the engineering surveys and options on the property for the proposed bridge over the Cuyahoga River to connect Loraine Ave. either with Huron Road or Bolivar Ave. has been passed by the County Commissioners. The estimated cost is $5,000,000.

✚**Ironton, Ohio**—The County Commissioners have awarded the contract for the construction of a bridge across Ice Creek at Coal Grove to the CAPITAL BRIDGE CO., at $19,112.

✚**Lebanon, Ohio**—The Board of Commissioners of Warren County has awarded the contract for the construction of the superstructure of a high truss steel bridge over Caesar's Creek in Massie Township to the OREGONIA BRIDGE CO., Lebanon, at $3865; the contract for the substructure was awarded to G. C. HARDEN, Middletown, at $2600, and the contract for the construction of a bridge over Turtle Creek at West St. in the Village of Lebanon to the OREGONIA BRIDGE CO., at $1619. Noted June 24.

Mt. Gilead, Ohio—Bids will be received until 11 a.m., Aug. 29, by C. O. Huggins, Audr., Bd. of Commissioners of Morrow County, for the construction of the 124-ft. Beatty Bridge in Cardington Township.

✚**Indianapolis, Ind.**—The Board of Public Works has awarded the contract for the construction of two additional spans to the West Washington St. Bridge over the White River to the NATIONAL CONCRETE CO., Indianapolis, at $110,000. Noted July 8 and 22.

✚**Sullivan, Ind.**—The contracts for the construction of nine bridges have been awarded by the County Commissioners as follows: Construction of two steel bridges to the VINCENNES BRIDGE CO., Vincennes; construction of one steel

bridge to the MONTGOMERY PARKER CO., Hatfield; construction of six concrete bridges to GEORGE SOLLER, Princeton. Noted May 20.

Paris, Ill.—Bids will be received by A. Allen Brubaker, City Clk., until 2 p.m., Aug. 2, for the construction of a 60-ft. reinforced-concrete, steel plate girder reservoir bridge on the Chicago Rd. at Sugar Creek. K. J. Barr is County Supt. of Highways.

†Rockford, Ill.—(Official)—G. HOHN, Rockford, has been awarded the contract for the construction of three bridges as follows: Kishwaukee St. Bridge, $8870; 10th St. Bridge, $3590; 11th St. Bridge, $3540. Edwin Main is City Engr. Noted May 13 and June 24.

Green Bay, Wis.—At a recent election the citizens voted against the question of issuing $5000 in bonds, the proceeds of which was to have been used for the construction of a bridge over the East River at Pleasant St.

†Grant, Iowa—The contract for the construction of 19 new bridges and the repair of 11 old ones has been awarded to the STANDARD BRIDGE CO., Omaha, Neb.

†Griswold, Iowa—The contract for the construction of a steel bridge has been awarded to the LANA CONSTRUCTION CO., Council Bluffs, at $4547.

†Radcliffe, Iowa—N. M. STARK CO., Des Moines, at $11,777, has been awarded the contract for the construction of eight bridges by the County Board of Supervisors.

Waukon, Iowa—Bids will be received until noon, Aug. 3, for the construction of 13 reinforced-concrete bridges, culverts and abutments. William F. Shafer is County Audr.

Iola, Kan.—Bids will soon be received for the construction of a bridge across the Neosha River near Iola. The estimated cost is $20,000. W. S. Gearhart is Engr.

Topeka, Kan.—It is reported that a new bridge will be constructed across Butcher Creek at 21st and Madison St. The estimated cost is $5500. W. G. Tandy is Comr.

Wichita, Kan.—Bids will be received until Aug. 8 by H. M. Barrett, County Clk., for the construction of a reinforced-concrete bridge over the drainage canal on 21st St. The estimated cost is $8000. E. V. Moore, Wichita, is Engr. Noted July 15.

Minden, Neb.—A resolution has been passed by the County Supervisors asking the state to aid in the construction of a bridge across the Platte River between Buffalo and Kearney Counties. The estimated cost is $65,000, to be borne by the two counties and the state.

St. Paul, Neb.—The State has been asked by the County Commissioners to proceed with the construction of an 800-ft. bridge across Middle Loup River. The estimated cost is $50,000, half of which will be borne by the county. A. Johnson, Lincoln, is State Engr.

Aberdeen, S. D.—The construction of a bridge across Chester Creek is being considered by the city. The estimated cost is $32,000.

Florence, Mont.—Bids will be received until Aug. 3 by the Board of County Commissioners, Hamilton, for the construction of a bridge across the Bitter Root River. The plans call for two designs, a 220-ft. pin connected steel truss bridge with concrete abutments and a 120-ft. two riveted steel span bridge with concrete abutments and two tubular steel piers for center piers.

Houston, Tex.—Press reports state that the city will construct three reinforced-concrete bridges, one on Telephone Rd. and two on Humble St.

†Lipscomb, Tex.—The County Commissioners have awarded the contract for the construction of two steel bridges across Wolfe Creek to AUSTIN BROS., Dallas, at $10,800.

†Longview, Tex.—The BLODGETT CONSTRUCTION CO., Shreveport, La., has been awarded the contract for the construction of a 120-ft. steel bridge across the Sabine River.

†Port Sullivan, Tex.—The Commissioners Court of Milam and Robertson Counties, Hearne, has awarded the contract for rebuilding the bridge across the Brazos River at Port Sullivan to the VINCENNES BRIDGE CO., Vincennes, Ind., at $13,490.

†Runge, Tex.—The Commissioners of Karnes County have awarded the contract for the construction of 37 bridges and 63 corrugated iron culverts to the ALAMO CONSTRUCTION CO., San Antonio, at $35,750. L. L. Yates is Engr.

Antlers, Okla.—Bids will be received by the County Clerk until 5 p.m., Aug. 3, for the construction of five steel bridges across the Kiomichi River. Charles E. Hagerty, Muskogee, is Engr.

Tulsa, Okla.—Bids will be received until Sept. 1 for the construction of a bridge across the Arkansas River. The estimated cost is $200,000. R. R. Hughes is County Engr. Noted June 24 and July 22.

Silver City, N. M.—The construction of a bridge over the Gila River at Old Fort West is contemplated by the County Commissioners. The estimated cost is $20,000. F. L. Cox is County Engr.

Winkelman, Ariz.—At a recent election the citizens voted in favor of the question of issuing $150,000 in bonds, the proceeds of which will be used for the construction of a bridge across the Gila River near Kelvin.

†Colfax, Wash.—The County Commissioners have awarded the contracts for the construction of four bridges as follows: A 60-ft. span at Pullman to CHARLES G. HUBER, Seattle, at $3769; a 40-ft. span at Clinton to W. A. LAUDER, Spokane, at $1745; a 25-ft. span at Garfield and a 30-ft. span at Farmington to H. C. MALLOTT, Seattle, at $1672 and $1536 respectively. Noted June 24.

Marblemount, Wash.—A. L. Strong, County Engr., is preparing preliminary plans for the construction of a 200-ft. bridge over Diasbud Creek.

Olympia, Wash.—Bids will be received until Aug. 9 by William A. Roy, State Highway Comr., for the construction of a steel riveted truss bridge, 195 ft. long, over the Snohomish River on the Olympic Highway in Mason County.

†Seattle, Wash.—The Commissioners of King County have awarded the contract for the construction of the Fall City Bridge to M. P. ZINDORF, Alaska Bldg., Seattle, at $27,522. A. P. Denton is County Engr. Noted July 1.

Seattle, Wash.—The Commissioners of King County have rejected all bids for the construction of the Stossel Bridge. Noted June 17 and July 15.

Seattle, Wash.—(Official)—The lowest bids received by the Board of Public Works for constructing the Lake Washington Canal bridges were as follows: 15th Ave. N. W. substructure, Booker, Kill & Whipple, Central Bldg., Seattle, $92,145; Superstructure Beers Building Co., Pitlock Bldg., Portland, Ore., $146,049; Fremont Ave. substructure, Pacific States Construction Co., Burke Bldg., Seattle, $112,651; superstructure, Beers Bldg. Co., $154,601. There were 21 bids submitted for the work. Noted June 17 and July 1.

†Tacoma, Wash.—(Official)—Bids were received July 7 by the State Highway Board, Olympia, for the construction of a reinforced-concrete bridge over the Mashell River, Pierce County, as follows: (a) Design No. 1, (b) Design No. 2, McRae Bros., Seattle, (a) $14,532, (b) $15,340; H. C. MALOTTE, Seattle, (a) $8850, (b) $7850 (awarded contract); Zindorf & Tiderol, Seattle, (a) $10,628, (b) $9836.76; Ferch & Gass, Seattle, (a) $12,700; Nettleton-Bruce-Eschbach Co., Seattle, (a) $12,200, (b) $12,700; Yelverton & Wolf, Olympia, (a) $10,285.61, (b) $10,655.17; Graff & Sheldon, Tacoma, (a) $8497, (b) $8300; Howard S. Wright, Everett, (a) $11,971, (b) $11,459; Pacific States Construction Co., Seattle, (a) $13,930, (b) $15,015; Charles G. Huber, Seattle, (a) $11,000, (b) $10,990; J. Hanson, Tacoma, (a) $10,781, (b) $11,661; Erle & Charles W. Maxham, Tacoma, (a) $11,750, (b) $11,900. Noted June 24.

†Tillamook, Ore.—The City Council has awarded the contract for the construction of a steel draw bridge across Hoquarton Slough to the FEENEY-BREMER CO., at $6650. Noted July 8.

El Monte, Calif.—Bids will be received until Aug. 2 by the Board of Supervisors of Los Angeles County for the construction of a steel girder bridge with concrete abutments and steel cylinder concrete piers across the San Gabriel River at El Monte. The estimated cost is $135,000.

Igo, Calif.—The County Supervisors have rejected all bids for the construction of a steel bridge over Clear Creek, and have decided to call for plans for a bridge of reinforced concrete.

Kennett, Calif.—(Official)—Bids will be received until Aug. 21 by S. N. Witherau, Clk., Bd. of Supervisors of Shasta County, Redding, for the construction of a wood and steel bridge with three 200-ft. spans and three 300-ft. spans across the Sacramento River at Kennett. The estimated cost is $20,000. C. R. Wiezel is City Engr. Noted June 24.

†Marysville, Calif.—(Official)—The Board of Supervisors of Yuba County has awarded the contract for the construction of three reinforced-concrete bridges on line of the State Highway across Best Slough, Dry Creek and Grasshopper Creek to JENKINS & WELLS, Sacramento, at $14,500. L. B. Cook is County Engr. Noted July 15.

Modesto, Calif.—Plans have been approved by the Board of Supervisors of Stanislaus County and bids will soon be received for the construction of a bridge across the Tuolumne River about eight miles east of Waterford. E. H. Annear, Modesto, is County Engr.

†Oakdale, Calif.—The Board of Supervisors of Stanislaus County has awarded the contract for the construction of a steel bridge across Wildcat Cañon, between Oakdale and Knight's Ferry, to the ROSS CONSTRUCTION CO., at $10,000.

†San Jose, Calif.—The Board of Supervisors of Santa Clara County has awarded the contracts for the construction of bridges as follows: Bridge over Campbell Creek on the Homestead Rd. to M. E. KILCOURSE, San Jose, at $4387; bridges over San Tomas, Calabasas and Permenente Creeks to JOHN DOYLE, San Jose, at $5730. Noted July 1.

†St. Boniface, Man.—The City Council has awarded the contract for the construction of the superstructure of the Provencher Ave. Bridge to the DOMINION BRIDGE CO., Lachine Locks, Que., at $264,000.

WATER SUPPLY—IRRIGATION

Pittsfield, Mass.—It is reported that the General Electric Co. has completed plans for the construction of a reservoir at Perinne Ave. The estimated cost is $110,000. Noted Aug. 27.

Centerville, N. Y.—Bonds for $35,000 have been sold. The proceeds will be used for the construction of a water system.

LeRoy, N. Y.—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds. The proceeds will be used for the extension of the water system. Noted Mar. 25 and June 17.

Lockport, N. Y.—Bids will be received by William G. Spalding, Clk., Bd. of Water Comrs., until Aug. 5 for the construction of a 10-in. and 12-in. water pipe in Market and Mill St. Noted June 24 and July 1.

†Rochester, N. Y.—The Board of Contract and Supply has awarded the contract for laying water mains to W. E. KINNEY, Rochester, at $10,556.

★Wellsville, N. Y.—(Official)—Bids will be received until noon, Aug. 25, by the Board of Water and Light Commissioners, for the construction of improvements to the water system. Plans may be seen at the office of the Board at Wellsville or at the office of Charles C. Hopkins, Engr., Rochester. F. M. Leonard is Acting Clk.

Camden, N. J.—Plans have been prepared for the construction of an auxiliary pumping station at Morris Station. The plans provide for a building in which will be installed two pumps each with a daily capacity of 5,000,000 gal. Noted May 6.

Philadelphia, Penn.—An expenditure of $30,000 for the improvement of the water supply of South Philadelphia is contemplated.

Castlewood, Va.—According to press reports the Castlewood Water Co. has been incorporated with a capital of $5000 by J. W. Huff, Pres. and R. S. Gose, Secy., Treas.

✚Covington, Va.—The city has awarded the contract for the construction of a 2,000,000-gal. concrete reservoir and improvements to the water system to BEARDSLEY, DONGAN & BEARDSLEY, McBain Bldg., Roanoke, at $12,021. Harry Stevens, Washington, D. C., is Engr. Noted June 10 and 24.

Harrisonburg, Va.—Bonds for $60,000 have been appropriated by the Town Council. The proceeds will be used for the construction of a filtration plant. Noted Jan. 21.

Keyser, W. Va.—At a recent election the citizens voted in favor of issuing $35,000 in bonds. The proceeds will be used for the construction of a water system. Leander Schaidt, Cumberland, Md., is Engr. Noted June 3.

Boston, Ga.—The water system will be extended. W. Hopson Goodloe, Macon, is Engr.

Coolidge, Fla.—An election will be held Aug. 16 to vote on the question of issuing $4500 in bonds, the proceeds of which will be used for the construction of a water system. G. T. Knight is Mayor.

Palmetto, Fla.—An election will be held Aug. 10 to vote on the question of issuing $16,000 in bonds. The proceeds will be used for the construction of water and sewer systems. Noted Feb. 25.

Tutwiler, Miss.—The city plans to issue $15,000 in bonds. The proceeds will be used for the construction of water and sewer systems.

Bellbuckle, Tenn.—At a recent election the citizens voted against the question of issuing bonds for $25,000, the proceeds of which was to have been used for the construction of a water system. Noted June 24.

✚Covington, Ky.—The contract for furnishing the city with 2000 tons of 24-in. c.-i. pipe for the construction of the emergency main from the Ft. Thomas reservoir to Covington has been awarded to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Addyston, Ohio, at $92,000.

East View, Ohio—(Warrensville post office)—Bids will be received until noon, Aug. 12, by Charles E. Burger, Clk., for the purchase of $7556 in bonds. The proceeds will be used for laying 6-in. water mains in Elm and Allen St.

Hamilton, Ohio—Bonds for $10,000 have been authorized by the Public Service Commission. The proceeds will be used for the installation of three new 10-in. wells and intake for the water works system. Joseph B. Meyers is Dir. of Pub. Ser.

Maumee, Ohio—Bids will be received by Thomas N. Dowling, Clk., until 7.30 p.m., Aug. 23, for the purchase of $56,000 in bonds. The proceeds will be used for the construction of a water works system. Noted Aug. 6 and 13.

Redkey, Ind.—The Redkey Water Works Co. will install a water works system. Bonds for $10,000 have been sold for this purpose. Noted Apr. 15.

Manitowoc, Wis.—The city has rejected all bids for the construction of water mains and has decided to do the work by day labor.

Milwaukee, Wis.—Bids will be received by the Department of Public Works until 10:30 a.m., Aug. 3, for laying c.-i. water pipe and setting hydrants on Florida St.

Murphysboro, Ill.—(Official) — The Murphysboro Water Works, Electric & Gas Light Co. has engaged Edward Flad & Co., Consult. Engr., De Menil Bldg., St. Louis, Mo., in connection with the installation of a filtration plant for the water system.

Wittenberg, Wis.—Bonds for $12,000 have been sold by the city. The proceeds will be used for the installation of a municipal water works system. Noted Apr. 8 and May 27.

Cresco, Iowa—Bonds for $10,000 have been sold by the Commissioners of Howard County. The proceeds will be used for the construction of a water system.

Denison, Iowa—(Official)—The date for receiving bids for drilling an artesian well has been extended to Aug. 12. All bids received on July 22 were rejected. E. F. Tucker is City Clk. Noted July 15.

Kingsley, Iowa—Bids will be received by W. R. Payne, Town Clk., until Aug. 5 for a 100,000-gal. water tank.

Marshalltown, Iowa—The Lynchburg Foundry Co., Lynchburg, Va., was the lowest bidder for furnishing the city with water pipe, at $23.85 per ton for 6-, 8- and 12-in. pipe and $25.85 per ton for 4-in. pipe.

Sidney, Iowa—At a recent election the citizens voted in favor of the question of issuing $20,000 in bonds. The proceeds will be used for the extension of the water system.

Attica, Kan.—Plans are being prepared for the construction of a water system. The estimated cost is $15,000. F. H. Kilburn is Engr.

✚Larned, Kan.—(Official)—The contract for making improvements to the water system, including motor-driven pumps, test boilers, steam and exhaust piping and auxiliary boiler room equipment, and constructing a stack has been awarded to the MERKLE-HEINES MACHINERY CO., at $26,-170. Noted July 15.

✚Pratt, Kan.—The contract for the extension of the municipal water system has been awarded to BASH & JAMES, Joplin, Mo., at $31,980. Other bidders were: English Tool & Supply Co., Kansas City, Mo., $27,000 (incomplete bid); Commercial Construction Co., Kansas City, Mo., $32,990; Merkle-Hines Co., Kansas City, Mo., $30,500. The E. T. Archer Co., New England Bldg., Kansas City, Mo., is Engr. Noted July 24.

Norfolk, Neb.—(Official)—An election will be held Aug. 2 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the extension of the water system. Noted July 15.

Veblen, S. D.—Press reports state that the town contemplates holding an election to vote on the question of issuing $16,000 in bonds. The proceeds will be used for the construction of a water system.

Watertown, S. D.—Bids will be received by the City Auditor until Aug. 2 for furnishing c.-i. pipe and castings. F. W. Shreiber is City Engr.

Chouteau, Mont.—(Official)—Bids will be received until 8 p.m., Aug. 9, by A. L. Powers, Town Clk., for the construction of a municipal water system. The work includes the installing of electric pumps, laying mains and the construction of a concrete reservoir. The estimated cost is $[illegible]. Swearingen & McCulloh, Chouteau, is City Engr. Noted June 24.

Fromberg, Mont.—Bids will be received by Charles J. Jones, Town Clk., until Aug. 14 for the construction of a water system. The estimated cost is $17,500. B. C. Lillis, Billings, is Engr. Noted July 1.

Helena, Mont.—The construction of a 6300-ft. flume has been recommended to the City Council by the Water Commission.

Lees Summit, Mo.—The citizens contemplate holding an election to vote on the question of issuing bonds for the construction of a reservoir and pumping station.

Lees Summit, Mo.—The citizens have subscribed a fund of $18,000 to form a company for the purpose of constructing a five-mile pipe line from the County Hospital. O. C. Browning is interested.

✚St. Louis, Mo.—The city has awarded the contract for installing two 350-hp. boilers at high service pumping station No. 2 to the HEINE SAFETY BOILER CO., at $15,126. Noted July 8.

Washington, Mo.—An election will be held to vote on the question of issuing $60,000 in bonds, the proceeds of which will be used for the purchase of the water system. If the plant is purchased improvements will be made.

Leslie, Ark.—The city plans to issue bonds, the proceeds of which will be used for the construction of a water system. W. F. Cook, Jr., Little Rock, is Engr. Noted Mar. 18.

✚Bangs, Tex.—The contract for developing a water supply for the proposed water system has been awarded to CHARLES HART & SONS.

Beaumont, Tex.—All bids received July 14 for the construction of a c.-i. pipe have been rejected. Bids will be received until Aug. 17 for this work. Burns & McDonnell, Scaritt Bldg., Kansas City, Mo., is Engr. Noted July 1.

Elgin, Tex.—At a recent election the citizens voted in favor of the question of issuing $11,000 in bonds. The proceeds will be used for the construction of a water system. Noted June 24 and July 1.

✚Lehigh, Okla.—The contract for the extension of the water system has been awarded to W. S. SWANWICK, Joplin, Mo., at $38,600. The Benham Engineering Co., Oklahoma City, is Consult. Engr. Noted May 13.

Edgewater, Colo.—An election will be held Aug. 2 to vote on the question of issuing $72,000 in bonds. The proceeds will be used for the construction of a water system. C. W. Gist is Town Clk.

Denver, Colo.—The VaSant-Houghton Engineering Co., San Francisco, Calif., has been engaged to prepare preliminary plans for the construction of a new municipal water system. The estimated cost is $150,000. Noted July 1.

Sugar City, Idaho—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds. The proceeds will be used for the installation of a water system.

Bingham Canyon, Utah—Bids will be received until Aug. 5 by F. W. Quinn, Clk., for the purchase of $17,000 in bonds. The proceeds will be used for the improvement of the water system.

Logan, Utah—Bids have been received for constructing (a) a five-mile 22-in. pipe line and (b) for a 1,000,000-gal. reservoir as follows: Olof Nelson, Logan, (a) $49,550, (b) $16,612; Owen H. Grey, Salt Lake City, (a) $53,673, (b) $18,447; J. E. Wilson, Logan, (a) $54,011, (b) $20,616. Noted July 8.

Florence, Ariz.—F. N. Ensign, Phœnix, is preparing plans for the construction of a municipal water works plant and an electric-light system. The estimated cost is $50,000.

Hillyard, Wash.—The city plans to issue $6000 in bonds. The proceeds will be used for the construction of a water system.

Seattle, Wash.—Plans have been approved by the Board of Public Works for the construction of water mains in 59th Ave., N. E. The estimated cost is $6000.

✚Wenatchee, Wash.—The Trustees of the West Okanogan Irrigation District have awarded the contract for the construction of an irrigation system, to serve 10,000 acres, to the GUTHRIE, McDOUGAL & CO., Portland, at $510,650.

Milwaukee, Ore.—An election will soon be held to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the extension of the water mains from Milwaukee to Portland.

✚Mono Lake, Calif.—The contract for the construction of a reinforced-concrete irrigation dam has been awarded to the DUNCANSON-HARRELSON CO., Chronicle Bldg., San Francisco. The estimated cost is $250,000.

San Rafael, Calif.—An election will be held Aug. 28 to vote on the question of issuing $300,000 in bonds. The proceeds will be used for the construction of a municipal water system.

The Narrows, Man.—Plans will soon be prepared for the construction of a new water system. The estimated cost is $80,000. H. H. Elliott is Town Clk. Noted July 8.

Canora, Sask.—Plans are being prepared by Chipman & Power, Mail Bldg., Toronto, for the installation of a water system. The estimated cost is $20,000. Noted July 22.

SEWERS

✚Augusta, Maine—The contract for the construction of sewers in Pope, Middle, Bridge, Liberty and Spruce St. has been awarded to THOMAS HICKEY.

Portland, Maine—The city has made a supplementary appropriation of $30,000 for the construction of the East Side Intercepting Sewer and the proposed Libbytown Gulley Sewer.

✚Andover, Mass.—(Official)—The Board of Public Works has awarded the contract for the construction of the Abbott and Marland sewer system to CENENDELLA & CO., Milford, at $39,739. Other bids were: Philip Holland, $39,980; F. E. McDonough, $46,000; J. Wagenbauch, $40,242; D. Sheean, $46,-000; J. J. Evans, $41,200; Rosso & Co., $40,700; C. E. Trumbull Co., $45,000; Morrison & Young, $45,891. Noted July 15.

Lowell, Mass.—The City Council has voted to borrow $20,000 for the completion of the sewer system.

★**Pittsfield, Mass.**—(Official)—Bids will be received until Aug. 4 by the Clerk of the Board of Public Works for the construction of sanitary sewers and filtration beds. A. B. Farnham is City Engr. Noted May 27.

Salem, Mass.—The City Council has appropriated $7000 for the construction of sewers in Cleveland Rd., Loring Ave. and connecting streets.

Wallingford, Conn.—Bids will be received until Aug. 3 by John E. Martin, Warden, for the construction of tile pipe sewers and for the completion of the low-level trunk sewer. W. A. Mackenzie is City Engr.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contracts for sewer construction have been awarded to the STANHOPE CONTRACTING CO., 404 Stanhope St., Brooklyn, at $15,995, for constructing sewers in 15th St.; and JOHN C. SCHRADE, Inc., 2132 Beverly Rd., Brooklyn, at $2503, for constructing sewers in Gravesend Ave. Noted July 15.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—The contract for installing complete the mechanical equipment at the 26th Ward Disposal Works at Hendrix St. and Vandalia Ave. has been awarded to the NORTH EASTERN CONSTRUCTION CO., 225 Fifth Ave., N. Y., at $4698. Noted July 22.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 3, by Marcus M. Marks, Borough Pres., for the relocation and reconstruction of sewers in Rector St.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—Contracts for sewer construction have been awarded to the KINGSBRIDGE CONTRACTING CO., at $144,404, for constructing sewers in East 41st St. and in Madison Ave.; and to the LACONIA CONTRACTING CO., at $10,926, for constructing sewers in Wall St. Noted July 15.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—The contract for improving the sewer in 32nd St. from Broadway to Fifth Ave. has been awarded to P. J. KEARNS, at $7198. Noted July 22.

Syracuse, N. Y.—Bids will be received until Aug. 4 by Harry J. Hamlin, Secy., Intercepting Sewer Board, for the construction of storm-water sewers in the northeasterly section of the city.

Utica, N. Y.—Bonds for $18,000 have been sold, the proceeds of which will be used for the construction of the Kossuth Ave. relief sewer. A. M. Burke is City Comptroller.

Bayonne, N. J.—Bids will be received until 4 p.m., Aug. 3, by the Board of City Commissioners for the reconstruction of sewers and appurtenances in West First St. William P. Lee is City Clk.

Newark, N. J.—(Official)—Bids will be received until 3:15 p.m., Aug. 5, by M. R. Sherrerd, City Engr., for the construction of sewers in Lexington and North 12th St.

Trenton, N. J.—The Board of City Commissioners has authorized the construction of a sewer system in Melrose Ave. Frank Thompson is City Clk.

Bellwood, Penn.—(Official)—The State Board of Health has approved plans for the construction of a sanitary sewer system. Noted Feb. 4.

Erie, Penn.—Plans have been prepared for the construction of an experimental sewage-disposal plant. The estimated cost is $8000. E. B. Briggs is City Engr.

Juniata, Penn.—(Official)—The State Board of Health has approved plans for the construction of a sanitary sewer system.

★**Lebanon, Penn.**—(Official)—Bids will be received by the Mayor and the City Council until 5 p.m., Aug. 18, for the construction of a sewage-disposal plant. T. R. Crowell is City Engr. and D. M. Sharp is City Clk. Noted July 15.

South Connellsville, Penn.—At a recent election the citizens defeated the question of issuing $30,000 in bonds. The proceeds of which was to have been used for the construction of a sewer system. Noted June 17.

West Chester, Penn.—It is reported that the Borough Engineer will prepare plans for the construction of a sewage pumping station at Everhart Grove.

Baltimore, Md.—Plans have been prepared for the construction of approximately eight miles of lateral sewers. The estimated cost is $100,000.

Richmond, Va.—Bids will soon be received by the City Engineer for the construction of sewers in various streets. The estimated cost is $42,000.

Eustis, Fla.—An election will be held about Aug. 13 to vote on the question of issuing $20,000 in bonds. The proceeds will be used for the construction of approximately three miles of sanitary sewers and Imhoff tanks. Noted Nov. 12.

Largo, Fla.—Bids will be received until Aug. 3 by the Pinellas County Commissioners for the construction of a sanitary sewer system and a septic tank.

Palmetto, Fla.—An election will be held Aug. 10 to vote on the question of issuing $16,000 in bonds. Part of the proceeds will be used for the construction of sewers. Charles Dennett is Mayor.

Starke, Fla.—An election will be held Oct. 5 to vote on the question of issuing $26,000 in bonds. The proceeds will be used for the construction of a sewer system. C. F. Hoover is Mayor. Noted May 6.

Clarksdale, Miss.—Bids will be received until Aug. 3 by W. S. Bobo, City Engr., for the sale of $15,000 in bonds. The proceeds will be used for the construction of sewers. Noted July 8.

Tutwiler, Miss.—The city contemplates issuing $15,,000 in bonds. Part of the proceeds will be used for the construction of a sewer system.

Harlan, Ky.—At a recent election the citizens voted to issue $7500 in bonds. The proceeds will be used for the construction of a sewer system. Noted June 24 and July 15.

✚**Madisonville, Ky.**—The contract for the construction of a sewer has been awarded to the QUINN CONSTRUCTION CO., Nashville, Tenn., at $6057.

Akron, Ohio—The State Board of Health has given the city six months in which to repair, improve or enlarge the sewage-disposal plant at the County Infirmary grounds.

✚**Cincinnati, Ohio**—(Official)—Contracts for the construction of the Walworth Run Diversion Sewer have been awarded to HOAG & ZULLO, Cleveland, Section No. 1, at $114,900 and to DONOLLEY & GRAHAM, Cleveland, Section No. 2, at $101,-262. Noted July 15.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of sewers in the Madisonville Sewer District, Contract No. 3, has been awarded to THOMAS P. STRACK, Cincinnati, at $61,756. Noted July 22.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of sewers in East Third St. and Hamilton Ave. has been awarded to THOMAS MALONEY, at $5059 and $22,-827 respectively. Noted July 8.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of main and lateral sewers and drains with appurtenances in Seitz, Dorsey and Goethe St. has been awarded to HENKEL & SULLIVAN, Cincinnati, at $11,912. Noted July 1.

Cleveland, Ohio—The State Board of Health has made an extension of two years in which to stop the pollution of the Cuyahoga River.

Columbus, Ohio—Bids will be received until Aug. 3 by the Director of Public Service for the construction of the Milo main trunk sewer, Contract No. 4.

Dayton, Ohio—Bids will be received until Aug. 1 by J. E. Bartow, Dir. of Pub. Ser., for the construction of sewers in Old Orchard, Summit, Second, Arbor, Evanston, Eaton, Commercial and Highland St. F. O. Eichelberger is City Engr. Noted Apr. 22.

Delphos, Ohio—Bonds for $12,387 have been sold, the proceeds of which will be used for the construction of a sewage-disposal plant.

Lakewood, Ohio—Plans have been approved by the State Board of Health, Columbus, for the construction of a sewage-disposal plant.

Northfield, Ohio—(Official)—No bids were received July 19 by C. S. Machwart, Village Clk., for the construction of 12,000 ft. of 4-in., 3000 ft. of 6-in. tile drain, 444 ft. of 15-in. corrugated culvert pipe and 10 bbl. portland cement. Noted July 15.

✚**Painesville, Ohio**—The contract for the construction of storm sewers in Richmond St. has been awarded to TONY TRIFILETTE, Lorain, at $11,813.

Sandusky, Ohio—The State Board of Health, Columbus, has approved plans for the construction of a sewage-disposal plant and an intercepting sewer system. The estimated cost is $200,000.

Toledo, Ohio—Plans are being prepared by William H. Gould, County Sanitary Surveyor, for the construction of 14 miles of 8-, 10-, 12-, 15-, 18- and 24-in. vitrified pipe sewers.

Toledo, Ohio—Bids will be received until noon, Aug. 3, by Charles J. Sanzenbacher, Audr., Lucas County Comn., for the construction of local sanitary sewer No. 18, in Lucas County.

Brazil, Ind.—(Official)—The city will not construct the proposed sanitary sewers in the West End as was noted in the issue of July 8. F. C. Wilson is City Engr.

✚**Logansport, Ind.**—A contract for sewer construction has been awarded to PALMER, MOORE & CO.

✚**Grand Rapids, Mich.**—(Official)—The contract for the construction of approximately six miles of 8- to 18-in. pipe sewers and a sewage-disposal plant has been awarded to A. H. PRANGE, Grand Rapids, at $37,000. Other bids were: Harry Vander View, $37,500; J. N. Bick, $38,200; Whaley & Edwards, $38,300; Allegan County Construction Co., $39,300; Verhey & Kart, $40,000. Noted June 10.

Reed City, Mich.—The contract will be awarded about Aug. 12 for the construction of sewers. The estimated cost is $15,000. M. W. Brown is Chn. of Sewer Com.

Chrisman, Ill.—The city contemplates the construction of sewers. The estimated cost is $9500. George W. Fair is City Engr.

Rock Island, Ill.—Plans have been submitted to the Board of Local Improvements for the construction of storm drains in the southern section of the city. The estimated cost is $10,000. Wallace Treicher is City Engr.

Wenona, Ill.—(Official)—We have been advised by F. H. Ong, City Clk., that the contract for the construction of a sewer system with septic tanks will be awarded without fail on Aug. 3. Noted June 24.

✚**Milwaukee, Wis.**—(Official)—The contract for the construction of 11 reinforced-concrete tanks on pile foundation has been awarded to JOHN F. CASEY CO., Pittsburgh, Penn., at $55,000. Noted July 8.

Whitewater, Wis.—The lowest bid submitted for the construction of sewers was that of M. A. Lanyon, Waukegan, Ill., at $23,900. Noted July 8.

Cherokee, Iowa—(Official)—Bids will be received until July 30 by William Shardlow, City Clk., for the construction of approximately 3½ miles of sanitary sewers. The estimated cost is $16,000. G. Y. Skeels, Sioux City, is Engr. Noted July 1 under Idagrove, Iowa.

Fairfield, Iowa—Bids will be received until Aug. 7 by the City Clerk for the construction of a sanitary sewer. The estimated cost is $10,000.

Laporte City, Iowa—Bids will be received until 8 p.m., Aug. 4, by G. E. Stebbins, Town Clk., for the construction of sewers and a sewage-disposal plant. M. Tschirgi & Sons, Cedar Rapids, is Engr. Noted June 24.

✚**Eveleth, Minn.**—(Official)—The contract for the construction of a sewage-disposal plant has been awarded to the EVELETH CONSTRUCTION CO., Eveleth, at $34,900. Noted June 24.

✚Clyde, Kan.—The contract for the construction of a sewer system has been awarded to BASH & JAMES, Joplin, Mo., at $15,299. Other bids were: P. A. Johnson, Kansas City, $17,275; Axtel G. Oldham, Kansas City, Mo., $15,915; James Stanton, Leavenworth, $19,254; Eby Construction Co., Wellington, $15,891; Inter Mountain Bridge & Construction Co., Tecumseh, Neb., $18,122; Gilkeson & Martin, Muskogee, Okla., $17,485; McCoy & Taylor, Kansas City, Mo., $20,309; Tonkawa Construction Co., Kansas City, Mo., $16,640. Noted July 8.

Hutchinson, Kan.—Bids will be received until 3 p.m., Aug. 3, by G. W. McLane, City Engr., for sewer extensions. The estimated cost is $10,000. Noted July 1.

Norton, Kan.—Bids will be received until 7:30 p.m., Aug. 2, by Vernie Fawcett, City Clk., for the construction of main, intercepting and lateral sewers and a sewage-disposal plant. Worley & Black, Reliance Bldg., Kansas City, Mo., is Engr.

✚Pratt, Kan.—The contract for sewer construction has been awarded to the LAUNDER CONSTRUCTION CO., Kansas City, Mo., at $11,500. Noted June 24.

Topeka, Kan.—Bids have been received for the construction of the East Side sewer from the Commercial Construction Co., Chicago, Ill., $127,375; J. A. Pringle, Topeka, $125,834; F. M. Torson, Kansas City, $105,430. A. R. Young is City Engr. Noted June 24.

Wichita, Kan.—The city contemplates the construction of sewers in the northern section of the city. The estimated cost is $4000.

Bridgeport, Neb.—Bids will be received until Aug. 3 by the City Clerk for the construction of approximately 5700 ft. of 12-in. and 3400 ft. of 10-in. sewers. Noted Mar. 25.

Grand Island, Neb.—The City Council contemplates holding an election to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of sewers. Noted Mar. 18.

Watertown, S. D.—(Official)—Bids will be received until 8 p.m., Aug. 16, by O. M. Lane, City Audr., for the construction of approximately 1558 ft. of 15-in., 5004 ft. of 18-in., 2112 ft. of 30-in. and 2167 ft. of 33-in. of sanitary sewers, 1186 ft. of 36-in., 3469 ft. of 42-in., 5034 ft. of 57-in. storm sewers, pumping station, and 4824 ft. of 16-in. c.i. force mains. The estimated cost is $112,000. F. W. Schreiber is City Engr. Noted July 1.

★Dallas, Tex.—(Official)—Bids will be received until 10:30 a.m., Aug. 23, by J. B. Winslett, City Secy., for the construction of improved sewerage works, Contract No. 5, North Interceptor, Contract No. 6, pumping station, 36-in. force main and Oak Cliff trunk line across the Trinity River, Contract No. 7, disposal works including 36-in. force main from Station No. 5 plus 88.7 to the disposal works.

Santa Anna, Tex.—At a recent election the citizens voted to issue $6000 in bonds. The proceeds will be used for the construction of a sewer system.

✚Moscow, Idaho—(Official)—The contract for the construction of sanitary sewers has been awarded to GEORGE E. WYCOFF, Spokane, Wash., at $11,879. Noted July 8.

Harrington, Wash.—An election will be held July 31 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a sewer system.

Enterprise, Ore.—The city contemplates the construction of lateral sewers in various streets estimated to cost $23,000.

Los Angeles, Calif.—J. Chutuk, at $39,118, submitted the lowest bid for the construction of sewers in Temple St. from Oxford Ave. to Kingsley Drive and in other streets.

✚Oakland, Calif.—The City Council has awarded the contract to the TIBBITTS-PACIFIC CO., San Francisco, at $9679, for the construction of the North Side sewer.

✚Santa Cruz, Calif.—The contract for the construction of sewer extensions has been awarded to D. BRYNE, at $11,770.

New Toronto, Ont.—It is reported that the city of New Toronto and Mimico will construct a sewer system and a sewage-disposal plant. The disposal plant will be built in Mimico. The estimated cost is $50,000.

St. Thomas, Ont.—Plans are being prepared by W. N. Ferguson, Engr., for the construction of a sewage-disposal plant. The estimated cost is $15,000.

Vancouver, B. C.—Plans have been approved by the Joint Sewerage Commission for the construction of the Hastings Park trunk sewer. The estimated cost is $200,000.

Victoria, B. C.—(Official)—The Council plans an expenditure of $74,654 for paving and sewer construction. The work will be done by day labor. Noted July 15.

GARBAGE

Gainesville, Fla.—The city contemplates the construction of a garage incinerator.

Fresno, Calif.—An election will soon be held to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of an incinerator.

Lachme, Que.—The city will soon start work on the construction of a new incinerator.

STREETS AND ROADS

✚Augusta, Maine—(Official)—Contracts have been awarded for constructing roads as follows: Hermon Rd., 1.09 miles to the AHERN CONSTRUCTION CO., Willimantic, Conn., $7369; Ellsworth Rd., 0.78 mile to the AHERN CONSTRUCTION CO., Willimantic, Conn., $5610; Brewer Rd., 0.43 mile to H. A. & S. G. DAY, Bangor, $1905; Monson Rd., 2.27 miles, to JAMES H. KERR, Rumford, $13,850.

✚Hinsdale, N. H.—A contract for constructing the state road and grading the hills on Brattleboro St. has been awarded to JAMES E. HELYAR, Brattleboro, at $7000.

Beverly, Mass.—The City Council plans to repave Rantoul St. from Bow to Chestnut St.

Boston, Mass.—Bids will be received until Aug. 3 by the State Highway Commission for constructing 5200 lin.ft. of road in Ashburnham and 5200 lin.ft. of road in Chelmsford. Arthur W. Dean is Ch. Engr. of Comn.

Quincy, Mass.—The sum of $15,300 has been appropriated for road work on a number of streets. Chester I. C[illegible]ll is Mayor.

✚Glastonbury, Conn.—A contract for paving Nan[illegible] Ave. with macadam has been awarded to the R. G. MILL[illegible] CONSTRUCTION CO.

★Albany, N. Y.—(Official)—Bids were received Ju[illegible]26 by the State Highway Commissioner for constructing [illegible] No. 5498, Cornwall-West Point, Parts 1 and 2, Orange Co[illegible] 4.62 miles. John J. Hart, Peekskill, $280,065; Nordone & [illegible]trillo, Mt. Vernon, $294,545; Samuel Besmin, Inc., Beacon, $[illegible]; William Horne Co., New York, $297,822; P. J. Joyce C[illegible] Inc., New York, $298,620; James M. Hamilton & Co., Gardn[illegible] $299,310; James Anderson, Menands, $312,040; Cleveland & Sons Co., Brockport, $316,790; Peter F. Connolly Co., Boston, Mass., $322,403; Woolsey Construction Co., Poughkeepsie, $[illegible]320, Winston & Co., Brown Station, $343,193; Richards & [illegible]ston Inc., New York, $359,253; Scott Bros., Rome, $[illegible]; H. S. Kervaugh, Inc., New York, $395,176. Road No. [illegible] Cornwall-West Point, Part 3, Orange County, 1.17 miles, Nordone & Petrillo, Mt. Vernon, $13,341; Woolsey Construction Co., Poughkeepsie, $13,387; Samuel Beskin, Inc., Beacon, $13,400; James Anderson, Menands, $13,637; Winston & Co., Brown Station, $13,908; Cleveland & Sons Co., Brockport, $14,097; James M. Hamilton & Co., Gardner, $14,483.

✚Cohoes, N. Y.—The contract for paving Bowery St. with brick has been awarded to WALSH & KEEGAN, Albany, at $17,045.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received until 10:30 a.m., Aug. 3, by Douglas Mathewson, Borough Pres., for regulating, grading, paving, laying sidewalks, etc., on various streets.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received by L. H. Pounds, Borough Pres., for regulating, grading, curbing and laying sidewalks on 81st St. from 18th to 21st Ave. as follows: B. Tawrecano, Inc., $5177; W. T. Maxwell, $5474; M. Paconi, $5002. Noted July 15.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 14 by L. H. Pounds, Borough Pres., for improving (a) East Ninth St. from Ave. O to Ave. Q, (b) East 19th St. from Ave. L to Ave. M, (c) East 39th St. from Ave. I to Ave. K as follows: Uvalde Asphalt Co., (a) $12,491, (b) $4932, (c) $9724; Cranford Co., (a) $14,828, (b) $5732, (c) $11,261; Brooklyn Alcatraz Co., 407 Hamilton Ave., (a) $11,778, (b) $4428, (c) $8974; Sicilian Asphalt Co., (a) $13,976, (b) $5333, (c) $10,530.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Contracts have been awarded for regulating, grading, curbing and laying sidewalks on 63rd St. from 21st Ave. to Bay Parkway to the UVALDE ASPHALT PAVING CO., 1 Broadway, at $4283; 81st St. from 19th to 21st Ave. to NICOLA PAVONI, 1320 65th St., at $5002. Noted July 15.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 3, by Marcus M. Marks, Borough Pres., for regulating and paving with sheet asphalt a number of streets.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids were received July 20 for regulating and grading Haven Esplanade from Barrett Blvd. to Castleton Ave. as follows: C. Vanderbilt, 24 Elizabeth St., West New Brighton, $5631; Barber Asphalt Paving Co., $7212; Joseph Johnson Sons, $6809; J. F. Donovan, $5686.

✚Salamanca, N. Y.—The contract for paving Summit, Wilson, Armstrong and Jefferson St. has been awarded to H. E. BUNCE, Olean, $28,861.

Bound Brook, N. J.—The Borough Council plans to pave Main St., one portion of which will be paved with asphalt block and another with concrete.

Camden, N. J.—It is reported that the Board of Freeholders of Camden County plans to improve the White Horse Pike from Camden to Berlin with amesite.

✚Flemington, N. J.—The contract for improving Pennsylvania Ave. from Broad St. to the borough line has been awarded to J. L. LeCOMPTE.

Guttenburg, N. J.—Nolan & Hornung, 711 Du Bois St., West Hoboken, submitted the lowest bid at $2.20 per sq.yd. for paving 3908 sq.yd. of Bergenline Ave. Noted July 8.

Jersey City, N. J.—Bids will be received until 11 a.m., Aug. 5, by the Board of City Commissioners for repairing portions of Grand and Bay St., Bramhall and Ocean Ave. Michael I. Fagen is City Clk.

Jersey City, N. J.—Bids will be received until 11 a.m., Aug. 5, by the Board of City Commissioners for repairing Jackson Ave. from Bayview to Bidwell Ave. M. I. Fagen is City Clk.

Jersey City, N. J.—Plans have been approved for repairing and improving the Paterson Planbroad in Hudson County for a distance of 1½ miles. Thomas J. Wasser is County Engr.

Jersey City, N. J.—Henry Byrne, Comr. of Streets, plans to pave Garfield Ave. with asphalt at an estimated cost of $25,000.

Newark, N. J.—(Official)—Bids will be received until 3:30 p.m., Aug. 5, by the Board of Street and Water Commissioners for paving Oxford Ave. from Fleming to Passaic Ave., Tyler St. from Chestnut to Malvert St., Vesey St. from Pacific to McWorter St., Yates Ave. from Osborne Terrace to about 346 lin.ft. easterly therefrom on both sides of a central parkway 12 lin.ft. in width and Read St. from Market St. to Passaic Ave.

Newark, N. J.—(Official)—Bids will be received until 3:30 p.m., Aug. 5, by the Board of Street and Water Commissioners for paving Hinsdale Pl. Morris R. Sherrerd is Chief Engr.

✚Trenton, N. J.—The contract for resurfacing the Brunswick Pike has been awarded to the CONTINENTAL PUBLIC WORKS CO., New York, N. Y. Noted May 20.

Harrisburg, Penn.—(Official)—Bids will be received until 10 a.m., Aug. 10, by the State Highway Department for reconstructing roads as follows: Lycoming County, 5843 lin.ft. of brick block pavement in Muncy Borough, Northumberland County, 4940 lin.ft. of brick block pavement in Milton Borough and Monroe County, 4871 lin.ft. of brick block pavement in Stroudsburg Borough. Robert J. Cunningham is State Highway Comr.

Philadelphia, Penn.—Bids will be received until noon, Aug. 4, by M. L. Cook, Dir. Pub. Ser., for improving, paving and opening Emerald St. under the Philadelphia & Reading R.R.

✚Plymouth, Penn.—The contract for paving West Main St. has been awarded to EDWARD QUINN, Plymouth, at $11,181.

✚Cumberland, Md.—(Official)—The contract for improving Baltimore St. between the Western Maryland Ry. and the Baltimore & Ohio R.R. has been awarded to J. TONER BAIRD, Pittsburgh, at $22,416. Other bids were: John J. Carley, Richmond, Va., $23,608; Brady Bros., Frostburg, Md., $25,[illegible]. Noted July 15.

Bristol, Va.—At a recent election the citizens of Montgomery County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads.

Christiansburg, Va.—At a recent election the citizens of Christiansburg District of Montgomery County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads. Noted June 10.

★Staunton, Va.—(Official)—Bids will be received until 10 a.m., Aug. 6, by the Board of Supervisors of Augusta County for grading and macadamizing about four miles of road in Middle River District. R. W. Moore is Supt. Roads.

Logan, W. Va.—Press reports state that an election will be held Sept. 7 to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for constructing roads.

✚Parkersburg, W. Va.—The contract for paving sections of Avery and 18th St. has been awarded to the PARSON CONSTRUCTION CO., Brownsville, Penn.

Philippi, W. Va.—At a recent election the citizens voted in favor of issuing $20,000 in bonds, $9000 of which will be used for street paving.

Welch, W. Va.—(Official)—Bids will be received until Aug. 3 for constructing 34 miles of dirt road, 16 ft. wide in Big Creek District. W. J. McClaren is County Road Engr. Noted Apr. 13.

Dobson, N. C.—An election will be held Aug. 24 in Bryan Township to vote on the question of issuing $35,000 in bonds, the proceeds of which will be used for constructing roads in Bryan Township, Surrey County.

Dobson, N. C.—An election will be held Aug. 10 in Westfield Township to vote on the question of issuing $30,000 in bonds, the proceeds of which will be used for constructing roads in Westfield Township, Surrey County.

Augusta, Ga.—Press reports state that the City Council plans to pave Ninth St. from Broad to Walker St. with creosoted wood block at an estimated cost of $30,000.

Leesburg, Ga.—At a recent election the citizens of Lee County voted in favor of issuing $27,000 in bonds, the proceeds of which will be used for improving roads.

✚Laurel, Miss.—A contract for paving a number of streets has been awarded to the SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, at approximately $95,000. Noted July 15.

Algiers, La.—(New Orleans post office)—According to press reports the citizens plan to construct a five-mile paved boulevard from the immigration station and naval-station grounds to the Cut-Off road to the southward. E. E. Lafaye is Comr. of Pub. Property.

New Orleans, La.—(Official)—Bids will be received until noon, Aug. 16, by the highway Department of the Board of State Engineers, 104 New Orleans Court Bldg., for constructing 26 miles of highway in Road District No. 1, West Baton Rouge Parish. W. E. Atkinson is State Highway Engr. and Frank M. Kerr is Ch. State Engr. and Pres. Bd. of State Engineers.

Madisonville, Tenn.—At a recent election the question of issuing $300,000 in bonds, the proceeds of which was to have been used for constructing roads, was defeated. Noted Apr. 29.

✚Elkton, Ky.—The Todd County Fiscal Court has awarded a contract to ROY L. GOWELL, Russellville, at $17,445, for constructing 43.3 miles of model pike road.

Winchester, Ky.—Bids will be received until 8 p.m., Aug. 6, by C. B. Tracy, Clk., for paving 13,000 sq.yd. with asphalt.

✚Bellefontaine, Ohio—A contract for improving the south end of Anderson Bell Pike has been awarded to M. R. KOFFROTH, Richwood, at $9560.

Bowling Green, Ohio—(Official)—Bids will be received until 2 p.m., Aug. 16, by C. E. Stinebaugh, County Audr., for constructing the Elizabeth Schnell bituminous macadam road and the John Minning waterbound macadam road.

Chardon, Ohio—Bonds for $30,000 have been sold, the proceeds of which will be used for improving roads in Huntsburg Township.

✚Cincinnati, Ohio—(Official)—The contract for improving Glenway Ave. from Warsaw Ave. to the wood-block pavement at West Line Section 36 has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $79,752. Noted July 8.

✚Cincinnati, Ohio—(Official)—The contract for improving Montgomery Rd. from Gilbert Ave. to the Norfolk & Western Ry. has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $86,949. Noted July 8.

Cleveland Heights, Ohio—(Warrensville post office)—(Official)—Bids will be received until noon, Aug. 16, by H. H. Canfield, Village Clk., for improving the Warrensville Center Rd.

✚Columbus, Ohio—Contracts have been awarded for road construction as follows: Ashland County, Ashland-Loudonville Rd., 3.58 miles, macadam, D. A. PHILLIPS, Ashland, $44,036; Montgomery County, Cincinnati-Dayton Rd., 2.45 miles, brick, STRODBICK BROS., Middletown, $62,359; Stark County, Canton-Steubenville Rd., 2.59 miles, TURNBULL BROS. & CO., Canton, $51,084; Union County, Urbana-Marysville Rd., 4.27 miles, concrete, CATHER M. JUNK, Chillicothe, $51,990. Noted July 15.

Defiance, Ohio—(Official)—The time for receiving bids has been extended from July 28 to noon, Aug. 4, by Clayton M. Rath, Dir. Pub. Ser., for laying 28,129 sq.yd. of pavement. Noted July 22.

East View, Ohio—Bids will be received until noon, Aug. 12, by Charles E. Burger, Clk., for improving and constructing sidewalks on Helen St. from Kinsman Rd. to the village limits. The Pease Engineering Co., 804 Marshall Bldg., Cleveland, is Engr.

✚Lakewood, Ohio—(Official)—Contracts have been awarded by the city for paving Norton Ave. with brick and Lake Ave. with sheet asphalt to the CLEVELAND TRINIDAD PAVING CO., Cleveland, at $5707 and $35,293 respectively; French and Virginia Ave. with brick to PACE BROS., at $13,274 and $10,469 respectively; Dowd St. to BALDWIN BROS., at $11,150. Noted July 1.

✚Lockland, Ohio—(Official)—The contract for improving Mill St. has been awarded to HENKEL & SULLIVAN, Cincinnati, at $10,917. Other bids were: Kirchner Construction Co., $11,782; C. N. Danenhower, $11,815; Thomas P. Strack, $12,400. Noted June 17.

Mt. Gilead, Ohio—(Official)—Bids will be received until 11 a.m., Aug. 6, by the Commissioners of Morrow County for constructing the Sexon-Thatcher Rd. in Gilead and Canaan Townships. C. O. Higgins is County Audr.

Newburg Heights, Ohio—(Newburg post office)—Bids will be received until noon, Aug. 3, by J. A. Fitzgerald, Clk., for improving and paving Beta, Bridgeview, Gama and Sigma Ave.

✚New Philadelphia, Ohio—(Official)—The contract for improving Section 1 of the Oldtown Road Improvement in Goshen and York Townships has been awarded to the W. M. BRODE CO., Newcomerstown, at approximately $16,500. Noted July 8.

Reading, Ohio—Bids will be received until noon, Aug. 2, by William F. Klopmeyer, Clk., for improving Clark St. from Jefferson to Main St. D. S. Hosbrook, Pickering Bldg., Cincinnati, is Engr.

Rocky River, Ohio—Bids will be received until noon, Aug. 3, by Frank Mitchell, Clk., for constructing sidewalks in Center Ridge Rd.

✚Tiffin, Ohio—(Official)—Contracts have been awarded for paving Coe and East Market St. to JOHN E. KING, Tiffin; and West Davis and Wentz St. to LOUIS SCHANDER, Tiffin. Noted July 8.

Toledo, Ohio—Bids will be received until 10 a.m., Aug. 23, by the Commissioners of Lucas County for improving Jerusalem and Oregon Township Road No. 71. Charles J. Sanzenbacher is County Audr.

✚Upper Sandusky, Ohio—The contract for paving South Eighth St. has been awarded to the MODERN CONSTRUCTION CO., Fremont, at $19,802.

Warren, Ohio—(Official)—Bids will be received until noon, Aug. 21, by George T. Hecklinger, City Audr., for the sale of $13,000 in bonds, the proceeds of which will be used for improving North Tod Ave.

Brownstown, Ind.—Bids will be received until Aug. 9 by the City Clk., for paving approximately 17 blocks.

✚Indianapolis, Ind.—The contract for paving Keystone Ave. from Washington to Michigan St. with asphalt has been awarded to the REPUBLIC CONSTRUCTION CO., at $12,009.

Indianapolis, Ind.—(Official)—Bids will be received until 10 a.m., Aug. 4, by the Board of Public Works for improving a number of streets.

Knightstown, Ind.—(Official)—Bids will be received until 8 p.m., Aug. 2, by the Board of Trustees for grading, paving and curbing the public square; also Brown and Washington St.

✚Liberty, Ind.—The contract for constructing the Widan Rd. in Union Township has been awarded to WILKS & CO., Rushville, at $19,767.

✚Noblestown, Ind.—(Official)—A contract for constructing a county line road has been awarded to T. F. McCARTY, Noblesville, at $4100, by the Commissioners of Hamilton and Marion Counties. Noted June 17.

Vincennes, Ind.—(Official)—Bids will be received until 4 p.m., Aug. 9, by the Board of Public Works for paving Main St.

✚Winchester, Ind.—A contract for constructing the St. John Rd. in Green Township has been awarded to JOSEPH THORNHILL, Indianapolis, at $5075.

Burlington, Wis.—(Official)—Bids will be received until 2 p.m., Aug. 7, by the Board of Public Works for street paving. P. J. Hurtgen is City Engr.

✚Milwaukee, Wis.—The Department of Public Works has awarded contracts for paving Vliet St. to the BADGER CONSTRUCTION CO., $50,564; 21st Ave. and Eighth Ave. to the WHITE CONSTRUCTION CO., at $12,859 and $18,837 respectively; Fratney St. to F. P. COUGHLIN, at $6672.

✚Sheboygan, Wis.—The contract for constructing concrete pavement on Superior Ave. has been awarded to PETER SINNER, Sheboygan.

✚Clinton, Iowa—(Official)—The contract for paving Fourth St. has been awarded to THOMAS CAREY & SONS, Clinton, at $27,917. The only other bid was that of the Independent Construction Co., Davenport, at $29,736.

✚Columbus Junction, Iowa—A contract for laying 7910 sq.yd. of brick pavement has been awarded to KORNEMAN & SMITH, Muscatine, at $16,406.

Duluth, Minn.—The Board of Public Works plans to repave East Superior St. from 16th to 24th St.

✚Fairmont, Minn.—(Official)—A contract for laying 24,000 sq.yd. of wood-block pavement and constructing 6000 lin.ft. of curbing has been awarded to FIELDING & SHEPLEY, St. Paul, at $57,299. Noted June 24.

✚Virginia, Minn.—A contract for constructing curbs and gutters in various streets has been awarded to RISBERG-MARWICK, Virginia, at approximately $20,000. Noted June 24.

Wichita, Kan.—Bids will be received until Aug. 10 by Bert Wells, City Engr., for paving Park Ave. with concrete.

✚Norfolk, Neb.—(Official)—A contract for constructing 30,000 yd. of concrete pavement and 16,000 lin.ft. of concrete curb has been awarded to the H. J. CATHROE CO., Omaha,

at $40,900. Other bids were: D. S. Sears, $42,300; W. J. Creedon, $43,000; A. G. Doll. Noted June 4 and July 15.

Bozeman, Mont.—Bids will be received until Aug. 5 by C. A. Spleth, City Clk., for improving streets in a number of districts.

✚Helena, Mont.—The contract for paving Wilder Ave. has been awarded to ADAMI BROS., Helena, at $9529.

Laurel, Mont.—Bids will be received until Aug. 3 for constructing a road in District No. 15 at an estimated cost of $10,000.

Missoula, Mont.—(Official)—Bids will be received until 5 p.m., Aug. 3, by L. E. Harris, City Clk., for paving in Special Improvement District No. 35. E. S. Hathway is City Engr.

✚Philipsburg, Mont.—The Commissioners of Granite and Deer Lodge Counties have awarded the contract to the CLIFTON-APPLEGATE CO., at $13,000 for building the Flint creek hill road between Philipsburg and Anaconda.

✚White Sulphur Springs, Mont.—A contract for paving about 30 blocks has been awarded to A. G. PETERS, at $7897. Other bids were: Two-Miracle Construction Co., $8522; W. E. Winnie, $9179; McLaughlin & O'Neal, $8486.

Kansas City, Mo.—The Board of Public Works plans to pave Park Ave. from 41st to 43rd St. with asphalt.

✚St. Joseph, Mo.—(Official)—The contract for paving Noyes Blvd. with refined asphalt has been awarded to the METROPOLITAN PAVING CO., St. Joseph, at $67,510. Other bids were: Van Hafften Contracting Co., $74,432; C. W. Dillingham, $68,019; Cathey Construction Co., $68,169. Noted July 15.

Houston, Tex.—The Commissioners of Harris County have authorized the extension of the paving on Clinton Rd. to Penn City, a distance of seven miles, at an estimated cost of $30,000.

Seguin, Tex.—(Official)—All bids received July 19 for constructing six miles of road in Guadalupe County were rejected. New bids will be received by the Commissioners of Guadalupe County until Aug. 2 for constructing 12 miles of road. Noted July 15.

Boulder, Colo.—Press reports state that bids will be received some time this summer for paving streets in the business section.

✚Roswell, N. M.—The contract for paving Seventh St. from Missouri Ave. to Main St. has been awarded to the CLEVELAND TRINIDAD PAVING CO.

✚Tucson, Ariz.—The contract for improving Sixth Ave. and other streets has been awarded to the WARREN BROS. CO., at approximately $118,000.

Aberdeen, Wash.—Press reports state that the City Council has voted to pave Washington St., at an estimated cost of $16,000.

✚Anacortes, Wash.—The contract for paving State St. with concrete has been awarded to N. W. BALL, Seattle, at $10,000.

Everett, Wash.—The Commissioners of Snohomish County have authorized Hans Mumm, Jr., County Engr., to prepare plans for the improvement of Permanent Highway No. 19. M. Weatherbee is County Audr.

Everett, Wash.—J. W. Hoover, City Engr., is preparing plans for paving and constructing concrete sidewalks in South Rucker Ave.

✚Olympia, Wash.—(Official)—Bids were received July 19 by William R. Roy, State Highway Comr., for constructing the Pacific Highway between Custer and Enterprise in Whatcom County as follows: CHARLES E. LIND, Bellingham, $12,187 (awarded contract); Worthen & Satterthwaite, Lynden, $14,489; Sloane Bros., Seattle, $14,733; L. H. Goerig, Seattle, $14,324.

Olympia, Wash.—(Official)—Bids were received July 14 by William R. Roy, State Highway Comr., for constructing 15 miles of Olympic Highway between Mud Bay and McCleary in Thurston County as follows: Rojotte, Fobert & Winters, Olympia, $36,304; Burnet Construction Co., Seattle, $34,334; August Wallin, Aberdeen, $32,146; Allred & James, Centralia, $42,778; L. H. Goerig, Lacey, $33,792; Zindorf-Tideral, Seattle, $37,773; H. Graff & F. L. Sheldon, Tacoma, $37,614; Sloane Bros., Seattle, $33,582; Rignell & Bankston, Tacoma, $31,922. Noted June 24.

Olympia, Wash.—Bids will be received until 2 p.m., Aug. 9, by William R. Roy, State Highway Comr., for improving 14 miles of McClellan Pass Highway, between Natches and Summit in Yakima County.

✚Port Angeles, Wash.—A contract for grading and paving a number of streets has been awarded to FERCH & GASS, Seattle, at $94,533.

Seattle, Wash.—Bids were received for constructing four miles of road between Duwamish River and Renton Junction as follows: P. J. McHugh, $59,344; Standifer-Clarkston, Portland, Ore., $85,600; Porter & Conley, $95,531; Rowan & Anderson, $82,598; C. H. Kiel, $89,271; Holt & Jeffery, $95,535; Burnett Construction Co., $73,844; Charles Daley & Co., $80,253; Nettleton-Bruce Eschbach Co., $88,958; Ferch & Gass, $80,776; M. P. Zindorf, $81,212; West Coast Construction Co., $79,793; Horrocks Construction Co., $75,925.

Tacoma, Wash.—D. H. White, Engr. of Pierce County, has been authorized by the County Commissioners to prepare plans for hard surfacing the Pacific Highway from the County Club to Dupont, a distance of 5.6 miles. The work will cost approximately $80,000.

Eugene, Ore.—The City Council contemplates paving Lawrence St. and other streets. The estimated cost of the work is $11,000.

✚Portland, Ore.—The contract for paving San Rafael St. and Rodney Ave. has been awarded to OSKAR HUBER, at $13,004.

Portland, Ore.—The City Council plans to repave Upper Washington St. P. H. Dater is City Engr.

✚Tillamook, Ore.—A contract for paving three sections of county road with concrete has been awarded to the ARENZ CONSTRUCTION CO., Portland, at $33,227.

Compton, Calif.—Press reports state that bids wil soon be received by the Board of Trustees for paving and improving Main St. E. M. Lynch, Glendale, is Engr.

Fresno, Calif.—Bids will be received until 2 p.m. ... by the Board of Supervisors of Fresno County for con... 2.7 miles of Badger Sand Creek Rd. D. M. Barnwell ... the Bd.

Hermosa Beach, Calif.—The California Arizona ... tion Co., at $8416 was lowest bidder for improving ... Court.

✚Livermore, Calif.—The City Trustees have award... contract for street paving to the CALIFORNIA BITULIT... CO., at $64,696.

✚Los Angeles, Calif.—Contracts have been awarded ... proving Evergreen Ave. from Harrison to Wasbash ... F. W. WHITTIER, at $7984; York Blvd. from Ave. ... 54 to BENJAMIN F. FORD and FRED H. STOUT, at $...

✚Los Banos, Calif.—A contract for paving and impro... blocks has been awarded to W. H. WORSWICK, JR., ... at $48,810.

✚Manhattan Beach, Calif.—The contract for im... Ninth, 10th and 11th St. has been awarded to the M... CONSTRUCTION CO., at $16,206.

Quincy, Calif.—Bids will be received until Aug. 6 ... the Board of Supervisors of Plumas County for construct... the Ramelli Turnpike between Beckwith and Vinton. F. R. ... is County Clk.

✚Riverside, Calif.—The contract for improving 10.5 miles of county highway in Riverside County has been awarded to the C. L. HYDE CONSTRUCTION CO., San Diego, at $40,...

Sacramento, Calif.—(Official)—Bids were received July 19 by the State Highway Commission for road construction in various counties as follows: (a) Los Angeles County, Section A, Route 9, (b) Santa Clara County, Section B, Route ..., (c) Alameda County, Section B, Route 5; Peter L. Ferry, Tropico, (a) $45,165; Andrew Holloway, Pasdena, (a) $34,583; White & Gaskill, Long Beach, (a) $56,636; Leigh G. Garnsey, Los Angeles, (a) $46,130; Tryon & Brain, Los Angeles, (a) $43,758; C. T. Sloltax and H. A. Taylor, Los Angeles, (a) $48,150; Rogers Bros. Co., Los Angeles, (a) $50,753, M. R. Co., Los Angeles, (a) $49,841; Fred Hoffman, Long Beach, (a) $51,099; Palmer & McBryde, San Francisco, (b) $58,617, (c) $42,884; Bates Borland & Ayer, Oakland, (b) $50,326, (c) $44,520; Highway Paving & Construction Co., San Francisco, (b) $45,694; C. H. & A. W. Gorrill, San Francisco, (b) $48,724, (c) $42,222; John W. McDonald, Jr., San Jose, (b) $90,306; Marin Rock Co., San Anselmo, (b) $44,135, (c) $39,748; Commary Peterson Co., San Francisco, (b) $46,710, (c) $42,590; Ransom & Grummey, Oakland, (b) $48,600; Petersen & Grier, San Francisco, (b) $51,929, (c) $41,815; Tleslau Bros., San Francisco, (b) $53,163, (c) $46,542; Raisch Improvement Co., San Francisco, (b) $45,884; Blanchard-Brown Co., San Francisco, (b) $54,882, (c) $43,284; M. Blumenkranz, Davis, (c) $43,581; Spring Construction Co., Berkeley, (c) $35,884; H. G. Vaughan Construction Co., San Francisco, (c) $34,486; Parrott Bros. Co., Salt Lake City, Utah, (c) $37,857; P. H. Hoare, Oakland, (c) $43,471; W. R. Hunt & Sons, Alameda, (c) $39,230; W. J. Schmidt, Berkeley, (c) $41,138. Noted July 8.

✚San Diego, Calif.—The contract for improving 30th St. from University to El Cajon Ave. has been awarded to G. R. DALEY, at $6804.

Sanger, Calif.—Bids were received July 15 by the City Council for paving two miles of streets from J. W. Haynes, Oakland, $19,953 and Thompson Bros., Fresno, $18,765.

✚Oshawa, Ont.—A contract for constructing concrete pavements has been awarded to DREW & FLINTOFF.

INDUSTRIAL WORKS

Boston, Mass.—F. C. Larkin will build an eight-story, 70x100-ft., brick and steel warehouse at Berkeley and Stuart St. Densmore & Le Clear, 88 Broad St., is Engr.

✚Leicester, Mass.—EDWARD D. WARD, Worcester, Mass., has been awarded the contract for the construction of a three-story, 24x74-ft. addition to the plant of the L. S. Watson Mfg. Co. The estimated cost is $20,000. Cutting, Carleton & Cutting, Worcester, Mass., is Arch.

✚Quincy, Mass.—The Fore River Shipbuilding Co. has awarded the contract for the construction of a two-story, 185x779-ft. building on Howard St. to the ABERTHAW CONSTRUCTION CO. The estimated cost is $400,000. Noted July 22.

✚West Groton, Mass.—The Groton Leatherboard Co., 16 State St., Boston, Mass., has awarded the contract for the construction of a two-story, 75x140-ft. mill to the BOYLSTON CONSTRUCTION CO., 1126 Boylston St., Boston, Mass. I. W. Jones, Milton, M. H., is Engr.

✚West Springfield, Mass.—The Gilbert & Barker Co. has awarded the contract to the CASPER RANGER CONSTRUCTION CO., Holyoke, Mass., for the construction of a two-story, 63x100-ft. addition to its machine shop, a two-story, 27x32-ft. addition to its testing department, and a 40x80-ft. addition to its factory.

✚Worcester, Mass.—The BARROWS-STEWART CONSTRUCTION CO., 40 Central St., Boston, Mass., has been awarded the contract for the construction of two additional stories to the 60x154-ft., brick and steel main building of the plant of the R. B. Philips Mfg. Co.

✚Hartford, Conn.—(Official)—Ford, Buck & Sheldon, Inc., Engr., 60 Prospect St., has awarded the contract for the construction of a one-story, 55x320-ft. factory on Homestead Ave. to the JAMES H. GROZIER CO., for the Hartford Special Machinery Co., 734 Main St. Noted July 22.

✚New Haven, Conn.—The Winchester Repeating Arms Co. has awarded the contract for the construction of a four-story factory and two-story addition to its plant to the WESTINGHOUSE-CHURCH-KERR CO., New York, N. Y. The estimated cost is $314,000.

✚Waterbury, Conn.—The Scoville Mfg. Co. has awarded the contract for the construction of a five-story factory at East Main St. and Hamilton Ave. to the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y.

✚Buffalo, N. Y.—The Danahy Packing Co. has awarded the contract to the LACKAWANNA BRIDGE CO. for the construction of a cooling building at its plant at Metcalfe St. and the N. Y. C. R.R. tracks. The estimated cost is $25,000.

Buffalo, N. Y.—THE EASTERN CONCRETE STEEL CO. has been awarded the contract for the construction of a reinforced concrete mill and elevator at Tolsul Rd. and the N. Y. C. R. R. tracks for the Clover Leaf Milling Co. Noted June 24.

New York, N. Y.—(Borough of Queens)—The AMERICAN CONCRETE STEEL CO., 31 Clinton St., Newark, N. J., has been awarded the contract for the construction of a four-story, 80x[illegible]-ft. factory for the Degnon Realty & Terminal Improvement Co., 30 East 42nd St. (Borough of Manhattan) William Higginson, 13 Park Row (Borough of Manhattan) is Arch.

Rochester, N. Y.—The contract for the construction of a concrete warehouse for Brewster, Gordon & Co., has been awarded to R. K. FENNO. Foster & Gade is Arch. Estimated cost, $136,000. Noted July 15.

Syracuse, N. Y.—Bids are being received by Edward Howard & Son, Arch., for the construction of a one-story, 61x122-ft. refrigerating building, garage and office for the Fleischmann Co. Robert Embleton, 701 Washington Ave., New York, N. Y., is Mgr. The estimated cost is $20,000.

Syracuse, N. Y.—Bids are being received by Gordon Wright, Arch., Union Bldg., for the construction of a three-story, 60x175-ft. factory for Samuel Shapiro, 581 South Clinton St. The estimated cost is $20,000.

Syracuse, N. Y.—The H. H. Franklin Mfg. Co., 722 Gifford St., has awarded the contract for the construction of a four-story, 153x60-ft. factory to the W. J. BURNS CO.

Bayonne, N. J.—The Standard Oil Co. plans the construction of a $40,000 storage plant.

Newark, N. J.—Marshall N. Shoemaker, Engr., 9 Clinton St., has awarded the contract to the BECKER CONSTRUCTION CO., 361 Grove St., at $28,550, for the rebuilding of the leather factory of George Stengel, Inc. Noted July 1.

Riverside, N. J.—William F. Taubel has awarded to H. B. MILLER, Beverly, N. J., the contract for the construction of a three-story, 50x120-ft. factory to cost $35,000. W. U. Jury, Shamokin, Penn., is Arch.

Philadelphia, Penn.—The contract for the construction of an addition to the factory of H. A. Romberger, Bourse Bldg., has been awarded to JOHN N. GILL & CO., Held Bldg. E. T. Bertolett and Raymond Mathews, 1614 Cherry St., are Archs. The estimated cost is $12,000.

Pittsburgh, Penn.—The Union Storage Co. will build an eight-story, cold-storage warehouse on Smallman St., to cost $500,000.

Pittsburgh, Penn.—William Beckett, 6887 Hamilton Ave., has awarded the contract for the construction of a one-story, 50x100-ft. commercial garage to WALKER & CARLEY, Bessemer Bldg. H. Viehman, Hays Ave., Carrick, Penn., is Arch. The estimated cost is $10,000.

Reading, Penn.—William S. Markley, 236 High St., has purchased a site at Penn and Queen St., and will build a $50,000 plant.

Baltimore, Md.—The Poehlman Auto Co., 1107 Cathedral St., has awarded the contract for the construction of a four-story, 45x70-ft. garage to the COWAN BUILDING CO., 106 West Madison St. Wyatt & Nolting, Keyser Bldg., is Arch. The estimated cost is $20,000.

Longisland, N. C.—The Longisland Mills, will enlarge and improve its plant, at an estimated cost of $20,000.

Worth, N. C.—The cotton mill of the Harden Mfg. Co., recently destroyed by fire, will be rebuilt. The loss was $175,000.

West Point, Ga.—The contract for the construction of a three-story cotton mill for George H. Lanier, has been awarded to the GALLIVAN BUILDING CO., Greenville, S. D. Estimated cost, $500,000.

Jacksonville, Fla.—The Ford Motor Co., Detroit, Mich., will establish an automobile assembling plant at Ocean and Church St.

New Orleans, La.—The National Fish, Game, Produce & Ice Co. will build two cold-storage plants, to cost about $100,000.

Chattanooga, Tenn.—The Parish Coffee Co. will build a three-story, brick factory on Rossville Blvd., to cost between $15,000 and $18,000.

Nashville, Tenn.—The Ford Motor Co., Detroit, Mich., will establish a branch factory.

Akron, Ohio—The B. F. Goodrich Co. has awarded to the CARMICHAEL CONSTRUCTION CO. the contract for the construction of a five-story, 200x200-ft., reinforced-concrete factory to cost about $500,000.

Cleveland, Ohio—The Musterole Co., 4612 St. Clair Ave., has awarded the contract for the construction of a three-story, 65x100-ft. factory to SAMUEL AUSTIN & SON CO., 14,-230 Euclid Ave. The estimated cost is $40,000.

Cleveland, Ohio—The contract for the construction of a two-story 80x200-ft. factory on Grant Ave., for the Cleveland White Metal Co. has been awarded to the A. B. LOOMIS CONSTRUCTION CO. The W. F. Ferguson Co., 1900 Euclid Ave., is Arch. Estimated cost, $75,000. Noted July 15.

Fremont, Ohio—The Herband Co. plans the construction of a $20,000 addition to its plant.

Toledo, Ohio—Plans have been prepared by Thomas F. Huber, Arch., for the construction of a three-story building at Canton and Shepard St. for the American Plumbers Supply Co. The estimated cost is $40,000.

Toledo, Ohio—The contract for the construction of a coke oven plant on Front St., for the Toledo Furnace Co., has been awarded to the H. KOPPENS CO., Pittsburgh, Penn., at $145,-000.

Youngstown, Ohio—The Republic Iron & Steel Co. will expend $1,000,000 for the construction of an addition to its plant. Thomas J. Bray is Pres.

Muncie, Ind.—Ball Bros. will build a two-story addition to its plant, to cost $75,000.

Detroit, Mich.—The Chalmers Motor Co., Jefferson Ave., has awarded the contract for the construction of a four-story, 80x95-ft. addition to its factory to H. G. CHRISTMAN, South Bend, Ind. Kahn & Wilby, 58 La Fayette Ave., is Arch.

Detroit, Mich.—(Official)—The Aluminum Castings Co. has awarded the contract to MARTIN N. BURKHEISER, 660 Ellery St., for the construction of a $25,000 machine shop. The Forest City Engineering Co., 512 Hippodrome Bldg., Cleveland, Ohio, is Arch. Noted July 22.

Detroit, Mich.—The contract for the construction of a four-story factory, and a forge shop, at Clark Ave., and the Wabash R.R., for the Timken-Detroit Axle Co., has been awarded to the GEORGE A. FULLER CO. Nettleton & Weaver is Arch. Estimated cost, $60,000. Noted July 15.

Chicago, Ill.—The contract for the construction of a seven-story, 100x150-ft. paper mill for the Bermingham & Seaman Co., 7 South Dearborn St. has been awarded to the O. W. ROSENTHAL CO., 80 East Jackson Blvd. The estimated cost is $150,000. Paul Gerhardt, 64 West Randolph St., is Arch. Noted July 1.

Milwaukee, Wis.—The Ford Motor Co., Detroit, Mich., has awarded the contract for the construction of a plant at Prospect Ave. and Kenilworth Pl., to the O. H. BOSSERT CO., 848 Jackson St. The estimated cost is $275,000. Noted May 20.

Racine, Wis.—The Hamilton Beach Mfg. Co., will build an addition to its plant to cost $30,000.

Kansas City, Kan.—Plans have been prepared by the Heidenrich Engineering Co., 714 Dwight Bldg., Kansas City, Mo., for the construction of a reinforced-concrete grain elevator, to have a capacity of 1,000,000 bu. for the Union Pacific R.R. Co. The estimated cost is $250,000.

Kansas City, Mo.—The contract for the construction of a 700,000-bu., reinforced-concrete grain elevator at North Topping Ave. and the Kansas City Southern R.R. tracks for the Norris Grain Co., 612 Board of Trade Bldg., has been awarded to the BURRELL ENGINEERING & CONSTRUCTION CO. The estimated cost is $200,000.

Houston, Tex.—The Farmers' Warehouse Corporation will build a warehouse to cost about $25,000. H. T. Williams is interested.

Oklahoma City, Okla.—The Ford Motor Co., Detroit, Mich., will build an automobile assembling plant at Main and Grand St., and the St. Louis & San Francisco R.R.

Eureka, Utah—The Union Grain Elevator Co., will build a 50,000 bu. grain elevator, to cost $15,000. J. Knight is Pres.

New Westminster, B. C.—The contract for the construction of a $30,000 building on Front St. for the Brackman-Ker Milling Co. has been awarded to F. T. SHERBORNE, Metropolitan Bldg., Vancouver, B. C.

Prince Rupert, B. C.—George L. Clayton will build a cold-storage plant to cost $150,000.

FEDERAL GOVERNMENT WORK

Dredging—New York, N. Y.—(Borough of Queens)—(Official)—The following are the bids received for dredging in Newtown Creek: Maryland Dredging & Contracting Co., 1515 Fidelity Bldg., Baltimore, Md., 27c. per cu.yd. (scow measurement); Morris & Cummins Dredging Co., 32c.; P. Sanford Ross, Inc., 26½c.; R. G. Packard Co., 38c.; John A. Seeley, 27½c.; Coastwise Dredging Co., 29½c. Noted June 3.

Building—New York, N. Y.—Bids were received June 26 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a contagious diseases building at Naval Hospital, New York, as follows: John J. Hearn Construction Co., 67 West 46th St., New York, $18,600; J. Kresse Co., 32 Vanderbilt Ave., New York, $18,450; R. C. Emmons, 6406 Third Ave., Brooklyn, $18,373; John F. Kuhn, 328 East 51st St., New York, $23,875; R. H. Brown, Inc., 350 Fulton St., New York, $18,810; Riverside Construction Co., 39 Cortlandt St., New York, $14,733; Thomas J. Brady, Jr., Construction Co., 1170 Broadway, New York, $35,460; Simon Russek, Inc., 261 Broadway, New York, $19,237; Hermanns, Madden & Co., 103 Park Ave., New York, $19,422; Neptune B. Smyth, 413 East 34th St., $23,513; James F. McFerran, 129 West 42nd St., New York, $16,881; William H. Egan, 147 East 125th St., $24,744; M. J. Marshall, 1123 Broadway, New York, $21,589; Lewis J. Sieling, 171 Madison Ave., New York, $16,835; Jersey City Construction Co., 75 Montgomery St., Jersey City, N. J., $34,010; B. Diamond, 12 Bergen St., Brooklyn, $15,612; James McArthur Co., 22 Ormond St., Brooklyn, $23,722. Noted June 3.

Buildings—Pittsburgh, Penn.—(Official)—Bids will be received until noon, Aug. 25, at the U. S. Engineer Office, for building two brick lockkeeper's houses at Dam No. 10, Ohio River.

Bridge and Trestles—Pittsburgh, Penn.—(Official)—Bids will be received at the U. S. Engineer Office until noon, Aug. 26, for furnishing and delivering a service bridge and Poiree trestles at Dam No. 10, Ohio River.

Air Compressors—Pittsburgh, Penn.—(Official)—Bids will be received at the U. S. Engineer Office until Aug. 21 for furnishing and installing air compressors, gas engine, turbine, electric light plant, etc., at Lock 6, Monongahela River.

Lock Gates, Etc.—Pittsburgh, Penn.—(Official)—Bids will be received until noon, Aug. 21, at the U. S. Engineer Office, for furnishing and erecting steel lock gates and furnishing valves and lock operating machinery, at Lock 6, Monongahela River.

Mechanical Equipment—Washington, D. C.—The following are the bids received for furnishing the mechanical equipment in the Interior Department office building, (a) heating; (b) plumbing; (c) conduit and wiring: William Gordon Corporation, 107 W. 13th St., New York, N. Y., (a) $80,000; (b) $94,000, (c) $63,213; W. G. Cornell Co., (a) $80,829, (b) $99,510, (c) $67,410; Lord Electric Co., (a) $64,800, (b) $94,600, (c) $89,442; Standard Engineering Co., (a) $78,000, (b) $97,500, (c) $74,350; Hanley-Casey Mechanical Equipment Co., (a) $85,000, (b) $110,000, (c) $83,000; Thompson-Starrett Co., (a) $83,000, (b) $120,000, (c) $77,000; S. Faith & Co., (a) $90,000, (b) $111,500, (c) $79,271; Fitzpatrick & Hoepfner, (a) $78,000, (b) $104,000, (c) $75,000; Isadore Freund, (a) $89,000, (b) $129,500, (c) $70,966; L. K. Comstock & Co., (a) $90,947, (b) $125,000, (c) $78,357; John W. Danforth Co., (a) $103,000, (b) $116,000, (c) $81,000; Crook, Kries & Co., (a) $86,285, (b) $122,716, (c) $97,-295; G. A. Kees Domestic Engineering Co., (a) $105,000, (b) $117,746, (c) $97,000; Warner & Chambers, (a) $114,390, (b) $135,000, (c) $86,500; Chris Irving Plumbing & Heating Co., (a) $157,544, (b) $208,756, (c) $232,300.

Lock Gates—Wilmington, N. C.—(Official)—The following are the bids received for erecting lock gates, opened July 19, at the U. S. Engineer Office: Lawrence D. Weaning, Cleveland, Ohio, $10,800; Independent Bridge Co., $11,084; Riter-Conley Mfg. Co., $9,460; Penn Bridge Co., $10,300; Stacey-Schmidt Mfg. Co., $9500; Chicago Bridge & Iron Works, $11,200; Whitehead & Kales Iron Works, $10,732; Wilmington Iron Works, $14,977; McMyler Interstate Co., $21,370. Noted June 24.

★**Derrick Boat**—Washington, D. C.—(Official)—Bids will be received at the U. S. Engineer Office until noon, Aug. 23, for furnishing steel derrick boat complete with machinery and equipment.

Repairs to Jetties—Wilmington, Del.—Bids will be received at the U. S. Engineers Office, Old Federal Bldg., until 11 a.m., Aug. 20, for furnishing and placing stone for repairs of jetties at Cold Spring Inlet, N. J.

★**Post Office**—Charlotte, N. C.—Bids were received July 2, by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Charlotte, as follows: (a) light-colored marble, (b) light-colored granite: Norcross Bros., Worcester, Mass., (a) $26,700, (b) $27,300; J. S. Rogers Co., Moorestown, N. J., (a) $264,613, (b) $275,500; P. F. Gormeley Co., Washington, D. C., (a) $243,000, (b) $253,000; Travers Wood Co., Richmond, Va., (a) $247,400, (b) $258,000; J. A. Jones, Charlotte, (a) $257,634, (b) $265,750; Westchester Engineering Co., White Plains, N. Y., (a) $243,000, (b) $266,000; James Devault, Canton, Ohio, (a) $267,000, (b) $233,000 (limestone); Thomas W. Cissell, Wooster, Ohio, (a) $245,700, (b) $256,000; M. Yeager & Co., Danville, Ill., (a) $247,905; Torbert Construction Co., Philadelphia, Penn., (a) $247,676, (b) $257,976; John G. Unkefer & Co., Minerva, Ohio, (a) $242,294, (b) $253,294; W. H. Fissell & Co., New York, N. Y., (a) $246,000, (b) $261,755; Barnes Bros., Logansport, Ind., (a) $240,000, (b) $249,000; Wise Granite & Construction Co., Richmond, Va., (a) $262,800, (b) $265,000; William H. Maxwell, Bangor, Maine, (a) $275,184, $274,484 (Vermont marble); (b) $285,144; Boyle-Robinson Construction Co., Washington, D. C., (a) $249,981, (b) $268,781. Noted May 27.

Dredging—Grand Marais, Mich.—The following are the bids received for dredging 30,000 cu.yd. at Grand Marais, opened at Duluth, Minn., July 15 by Maj. E. D. Peek: Zenith Dredge Co., Duluth, Minn., 30c. per cu.yd.; Great Lakes Duluth-Superior Dredging Co., Duluth, Minn., 194-5c.; North-Dredge & Dock Co., Alworth Bldg., Duluth, Minn., 20.3c.; ern Dredge & Dock Co., Duluth, Minn., 20½c.

Post Office—Beardstown, Ill.—Bids were received July 9, by the Supervising Architect, Treasury Department, Washington, D. C., for the construction of a post office at Beardstown, (a) limestone, (b) sandstone as follows: Rogers & Kaiser, Chicago, (a) $45,795, (b) $46,800; Clarke Construction Co., Danville, (a) $40,985; Callahan-Mandl Co., Chicago, (a) $43,252; W. G. Carter Co., Chicago, (a) $41,968, (b) $42,318; R. S. Moore, Lafayette, Ind., (a) $44,679, (b) $45,180; Frank J. Griffey & Son, Kansas City, Mo., (a) $49,615; Christ Kanzler & Son, Evansville, Ind., (a) $49,900, (b) $50,300; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $43,337; (b) $43,737; Thomas W. Cissel, Wooster, Ohio, (a) $545,993, (b) $46,293; E. A. Steininger Construction Co., St. Louis, Mo., (a) $43,173; George W. Stiles Construction Co., Chicago, (a) $42,886; Colonial Construction & Supply Co., Charlottesville, Va., (a) $42,578, (b) $42,860; George A. Shaul, Seneca, Kan., (a) $41,794; John Lauritzen, Fergus Falls, Mont., (a) $39,990; Thomas G. Gage Co., Chicago, (a) $43,000 and Potters Lumber Co., East Liverpool, Ohio, (a) $44,785, (b) $45,700. Noted June 3.

★**Dredging**—Chicago, Ill.—(Official)—Bids will be received at the U. S. Engineer Office, Federal Bldg., until 10 a.m., Aug. 17, for dredging in Calumet River.

Post Office—Des Moines, Iowa—The following bids were received July 8, by the Supervising Architect, Treasury Dept., Washington, D. C., for remodelling the post office at Des Moines; Grohne Decorating Co., Joliet, Ill., $14,390; Charles Weitz Sons, Des Moines, $10,360; Frank M. Weakley, Portsmouth, Va., $15,229. Noted Apr. 22 and June 3.

Earthwork—Saco, Mont.—(Official)—Bids will be received at the office of the U. S. Reclamation Service, Malta, Mont., until 2 p.m., Aug. 12, for about 355,000 cu.yd. of canal excavation. The work is located from three to 10 miles from Saco, Mont., on the Great Northern Ry.

Pumping Plant—Ft. Bliss, Tex.—Preliminary plans are reported ready and bids will soon be asked by the War Department, for the construction of a pumping plant. The estimated cost is $45,000.

✚**Post Office**—Narmion, Tex.—The contract for the construction of the post office at Narmion, has been awarded to VOLNEY E. TAYLOR, Huntington, W. Va., at $45,950.

Extension to Jetties—Portland, Ore.—The following are the bids received at the U. S. Engineer Office for the extension to the north and south jetties at Suislaw: Miami Quarry Co., Selling Bldg., $176,416; I. N. Day, $183,613; Porter Bros., $187,283; Peers Building Co., $176,994; Johnson-Anderson Co., $181,560.

Addition to Building—Salem, Ore.—The following bids were received by the Commissioner of Indian Affairs, Washington, D. C., for the construction of an addition to the brick assembly hall at the Salem Indian School: L. C. Denison, 185 South 19th St., Salem, $10,719; Siewert & Engstrom, $12,927; W. D. Lovell, $18,500; Southwick & Headrick, $13,597; John Almeter, $13,829. Noted July 14.

MISCELLANEOUS

Coal-Handling Plant—Portland, Me.—A coal-handling plant to have a storage capacity of 25,000 tons will be built at Portland by the Pocahontas Fuel Co., 1 Broadway, New York, N. Y.

✚**Coal Pocket**—Boston, Mass.—The contract for the construction of a concrete coal pocket on Hilton St. for Batchelder Bros., 10 Post-Office Sq., has been awarded to W. A. MORTON CO., South Boston. J. H. Proctor & Co., Old South Bldg., is Engr.

★**Barge Canal Work**—Albany, N. Y.—Bids will be received by W. W. Witherspoon, Supt. of Pub. Wks., Capitol, until noon, Aug. 17, for constructing under Terminal Contract No. 37, a harbor and dockwall on the south side of the River at Canajoharies, and under Terminal Contract 46, a dockwall and approach on the south side of the River, west of the Weedsport Bridge.

Dock—Buffalo, N. Y.—According to press reports the New York Central R.R. Co. will soon award a contract for the construction of a concrete dock on the Buffalo River, estimated to cost $30,000.

Motor Fire Apparatus—Geneva, N. Y.—The Common Council has voted to hold a special election on Aug. 4, for the purpose of voting on an expenditure of $18,500 for the purchase of motor fire apparatus.

Station Finish—New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by the Public Service Commission, until 12:15 p.m., Aug. 18, for the construction of station finish for 23 stations on the Seventh Ave.-Lexington Ave. and White Plains Rd. Rapid Transit Railroads in the Bronx.

✚**Dredging**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for dredging in Mill basin, Jamaica Bay, has been awarded to the ATLANTIC GULF & PACIFIC CO., 13 Park Row, New York, at 0.05c. per cu.yd. Noted July 15 and 22.

✚**Pier**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for building a pier near the foot of 25th St. has been awarded to G. B. SPEARIN, 90 West St., New York, at $310,201. Noted July 22.

★✚**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for constructing a three-track elevated railroad beginning at a point near 38th St. and 10th Ave. and extending thence to 10th Ave.; thence over 10th Ave. and New Utrecht Ave. to a point at or near 81st. thence to a point in 86th St. to a point at or near Bay 41st St.; thence over 26th Ave. to Stillwell Ave.; and thence over Stillwell Ave. to a point at or near Ave. Y has been awarded to WARD & TULLEY at $71,355. Noted June 24 and July 22.

Dredging—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., until 11 a.m., Aug. 4, for dredging Newtown Creek Canal at and in the canal and basin included within the boundaries of Johnson Ave., Montrose Ave., Morgan Ave., Varick Ave., and also in the Stagg St. Basin, and in Newton Creek near the intersection of Scott and Metropolitan Ave.

★**Subway**—New York, N. Y.—(Borough of Brooklyn)—The following are the unofficial totals of bids received by the Public Service Commission for the construction of Section No. 3, Route No. 12, of the Eastern Parkway Subway: Rodgers & Hagerty, Inc., 152nd St. and Harlem River, New York, $2,170,000; W. H. Gahagen, Inc., $2,200,000; T. A. Gillespie Co., $2,203,000; Charles Cooper, $2,204,000; Battery Engineering & Construction Co. and Fraser, Burchenell Co., $2,260,000; Dock Contractor Co., $2,294,000; A. L. Guidone & Son, Inc., $2,296,000; Mason & Hanger Co., $2,333,000; Connex Engineering & Construction Co., $2,424,000; James E. Gaffney, $2,438,000; Degnon Contracting Co., $2,544,000; John J. Creem, $3,196,000. Noted July 15.

Lamp Posts—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by the Department of Water Supply, Gas and Electricity on July 19, for furnishing and delivering cast-iron lamp posts with steel shafts: J. Fox & Co., $48,300; Hecla, Winslow & Co., Inc., $64,750; Western Electric Co., $50,167; J. L. Mott Co., 118 5th Ave., New York, $39,568.

✚**Open-Hearth Rails**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and supplying open-hearth rails for use on the construction of the Rapid Transit Railroads has been awarded by the Public Service Commission to the BETHLEHEM STEEL PRODUCTS CO. Noted July 8 and 22.

✚**Motor Fire Apparatus**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 24 motor-driven hose wagons under three separate contracts, has been awarded to the INTERNATIONAL MOTOR CO., 64th St. and West End Ave., New York, at $86,814. Noted July 1 and 15.

✚**Motor Fire Apparatus**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and applying 26 two-wheel gasoline-driven tractors, 16 for fire engines and 10 for hook and ladder trucks, has been awarded to the FRONT DRIVE MOTOR CO., Willow Ave., Hoboken, N. J., at $82,680. Noted June 17, 24 and July 8.

Automobile Runabouts—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received by Robert Adamson, Fire Comr., for furnishing and delivering 20 automobile runabouts from the Ford Motor Co., 1723 Broadway, New York, at $8465, and the Maxwell Motor Co., at $10,000. Noted July 22.

✚**Fire Hose**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 20,000 ft. of 2½-in. and 10,000 ft. of 1½-in. cotton rubber lined hose has been awarded to the EMPIRE RUBBER & TIRE CO., 19 Warren St., New York, at $13,756. Noted July 8.

★**Subway**—New York, N. Y.—(Borough of Manhattan)—The following are the unofficial totals of bids received by the Public Service Commission for the construction of Section No. 3, Routes Nos. 4 and 36, a part of the Broadway Subway lying between 38th and 51st St.: Holbrook, Cabot & Rollins Corporation, 52 Vanderbilt Ave., New York, $3,741,000; Rodgers & Haggerty, Inc., $3,754,000; Smith, Hauser & McIsaacs, $3,814,000; MacArthur Bros. Co., $3,959,000; Underpinning & Foundation Co., $3,987,000; Oscar Daniels Co., $3,953,516; Degnon Contracting Co., $4,162,920; T. A. Gillespie Co., $4,230,000; Rapid Transit Subway Construction Co., $4,444,000. Noted July 15.

Piles—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier A, Battery Pl., until noon, Aug. 5, for furnishing and delivering piles.

Track Materials—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Public Ser-

vice Commission, until 12:15 p.m., Aug. 18, for furnishing track materials for use in the construction of Rapid Transit Railroads.

Track Supplies—New York, N. Y.—(Borough of Manhattan) (Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until Aug. 18, for the supply of special work (frogs and switches), Order No. 3, for use on the construction of Rapid Transit Railroads.

Conduits and Subway Work—Utica, N. Y.—According to press reports, bonds for $53,000 will be sold for constructing conduits and for draining and improving subways. A. M. Burke is City Comptroller.

Elimination of Grade Crossing.—Arlington, N. J.—Thomas J. Wasser, County Engr., Jersey City, is preparing plans for eliminating the grade-crossing of the New York & Greenwood Lake Branch of the Erie R.R. at Arlington.

✝Dredging—Philadelphia, Penn.—According to press reports the contract for dredging in preparation for the site of the first of the Moyamensing piers has been awarded to the AMERICAN DREDGING CO., at 14.4c. per cu.yd. for removing the material and depositing it above the high-water mark within the city limits. Noted June 24 and July 22.

Dock—Bayonne, N. J.—The Standard Oil Co. will erect a dock to cost about $65,000.

Swimming Pool—Cumberland, Md.—M. J. Clark, 10 North Liberty St., is interested in the construction of the proposed swimming pool in Amusement Park.

Causeway—Fairmont, W. Va.—According to press reports, a causeway will be built across Coal Run ravine to connect Main St. and Fairmont Ave. John R. Bennett and C. D. Robinson are interested. The estimated cost is about $500,000. Albert J. Kern, City Clk., is interested.

Elimination of Grade Crossing—Atlanta, Ga.—Plans are being prepared by the City Construction Department, for eliminating the grade crossing at Angier and Bellgrade Ave., at the Southern R.R. The estimated cost is $50,000.

Drainage—Bradentown, Fla.—According to press reports, bids will be received by Aug. 4 by the County Commissioners for about 896,202 cu.yd. of excavation for the Gamble Creek Drainage District. Charles S. Hill, P.O.B. 83, Palmetto, is Engr.

Canal—Parish, Fla.—Bids will be received by the Drainage Commissioners until Aug. 2 for the construction of a drainage system, to cost about $110,000. Noted Feb. 11.

✝Drainage—Bucktown, La.—The contract for dredging in Jefferson Drainage District No. 4 has been awarded to G. A. McWILLIAMS, Chicago, Ill., at $35,000.

Canal—New Orleans, La.—Bids will soon be asked for the construction of a canal 10 ft. deep, 200 ft. wide at the surface, and 80 ft. wide on the bottom. Ford, Bacon & Davis, Engr. of the Board of Port Commissioners has submitted four plans for approval.

✝Sprinkler System, Etc.—New Orleans, La.—(Official)—The contract for the installation of sprinkler equipment and underground water supply system for that portion of the cotton warehouses and terminal, now under construction, has been awarded by the Board of Commissioners to the GENERAL FIRE EXTINGUISHER CO., at $65,275.

★Levee—Vicksburg, Miss.—All bids received on July 12 by the Third Mississippi River District for about 1,415,000 cu.yd. of levee work have been rejected. Noted June 24.

Lumber and Piling—New Orleans, La.—The lowest bid submitted to the Port Commissioners for furnishing concrete piling was from the Creosoted Wood Block Co., at $79,599. Noted July 1.

✝Levee—Hickman, Ky.—Press reports state that the contract for enlarging the Reelfoot levee has been awarded to the BONDURANT CONSTRUCTION CO., Hickman, at about $18,000.

✝Revetment Wall—Columbus, Ohio—The contract for constructing the revetment wall has been awarded by the State Department of Public Works to PHILIP KIRSCHNER, 831 Cuyahoga Bldg., Cleveland, at $15,140.

Motor Fire Apparatus—Hamilton, Ohio—The City Council contemplates motorizing the fire department at an estimated cost of $50,000. C. E. Deneen is Comr. of Pub. Safety.

Equipment for Fire Department—Springfield, Ohio—Bids will be received until noon, Aug. 5, by the Business Manager, for furnishing $40,000 worth of fire equipment.

Ditch—Richmond, Ind.—Bids will be received by L. C. Peacock, County Surveyor, until Aug. 5 for constructing Nettle Creek Ditch, about 6¼ miles long.

Drainage—Bloomington, Ill.—Press reports state that the Blue Ridge Special District has been organized for the purpose of constructing a drainage system in McLean, De Witt and Pratt Counties. Belle & Hare has prepared plans.

Levee Work—East St. Louis, Ill.—The contract for constructing an earth levee has been awarded by the Board of Trustees, East Side Levee and Sanitary District, to JOHN KEELEY, East St. Louis, at 36c. per cu.yd. Noted June 24 and July 22.

Cement—Burlington, Wis.—(Official)—Bids will be received by the Board of Public Works, until Aug. 7 for furnishing 2600 bbl. of approved portland cement. P. J. Hartgen is City Engr.

Drainage—Atlantic, Iowa—Bids will be called for during September by the Commissioners of Cass County for the construction of about 3.2 miles of open ditches, requiring about 125,000 cu.yd. of excavation. J. H. Mayne, Engr., Council Bluffs is preparing plans. Noted June 24 and July 15.

Motor Fire Apparatus—Sioux City, S. D.—According to press reports, bids will soon be called by William Sloan, Fire Comr., for furnishing and delivering motor fire apparatus.

Ditches and Levees—Tekamah, Neb.—(Official)—Bids will be received by J. J. Breckenridge, Secy., Burt-Washington Drainage Dist., until noon, Aug. 14, for 1,000,000 cu.yd. of diversion ditches and levees. The Towl Engineering Co., National Bank Bldg., Omaha, is Engr.

Elimination of Grade Crossing—Kansas City, Mo.—According to press reports, the lowest bid submitted for the construction of the overhead crossing for the Chicago & Alton Ry. at Van Horn Blvd. was from J. T. Coughlin, at $30,196. Noted Mar. 4.

Dike—St. Joseph, Mo.—Surveys are being made and plans drawn for the construction of a dike for flood protection at 29th St. and Taraon Ave. Carl P. Hoff is City Engr.

Levee—Cummins, Ark.—It is reported that bids will be received until Aug. 2 by G. Waterman, Chn. Linwood and Auburn Levee Board, for constructing 4.2 miles of levee. E. G. Price, Dumas, is Engr.

✝Levee Work—Texarkana, Ark.—The contract for levee work in Miller County Levee District No. 1, has been awarded to JAMES T. CONSTANT, Alexandria, La. The estimated cost is $100,000.

✝Drainage—Garwood, Tex.—The contract for the construction of 16 miles of drainage ditches, with concrete culverts in Colorado Drainage Dist. No. 1, has been awarded to HOWARD KENYON, 3406 Audubon Pl., Houston, Tex.

Drainage—Monte Vista, Colo.—Bids will be received by O. A. Cramer, Secy., Rio Grande Drainage Dist., for constructing 17 miles of drainage outlet ditches. The work requires 325,000 cu.yd. of earth excavation.

Fire Alarm System—Phoenix, Ariz.—The contract for furnishing equipment for the proposed extensions to the fire-alarm system, has been awarded by the City Commission, to the STAR ELECTRIC CO., Binghamton, N. Y., at $15,822.

Dikes—Kelso, Wash.—At an election to be held soon the citizens will vote on the question of a bond issue, the proceeds of which will be used for the construction of dikes to protect 7000 acres of bottom land.

Improvements to Fire Department—Fresno, Calif.—An election will soon be held to vote on the question of issuing $200,000 in bonds for improving the fire department.

✝Steamer—San Francisco, Calif.—The Union Oil Co. has awarded a contract for the construction of an oil-carrying tank steamer to the UNION IRON WORKS, at about $1,000,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

✝Concord, N. H.—The contract for the construction of the Plymouth Normal School dormitory has been awarded to B. H. Wiggin & Co., Lowell, Mass., at $57,830.

Billerica, Mass.—The town has borrowed of the Central Savings Bank of Lowell, $90,000 for the construction of a new high school.

Boston, Mass.—Clarence H. Blackwell, Arch., 20 Beacon St., has completed plans for the construction of a 12-story building for the Pelham Trust Co., at Tremont and Boylston St.

Boston, Mass.—Bids will soon be received for the construction of an addition to the high school on Harvard St. The estimated cost is $75,000. Charles R. Greco, 8 Beacon St., is Arch.

Boston, Mass.—A Normal Art School is proposed on Commonwealth Ave. and Warren St. Cram & Ferguson, 15 Beacon St., is Arch. Daniel Snedden is Chn. of State Bd. of Education.

Boston, Mass.—Bids will be received about Aug. 1 for the construction of a ten-story, brick and steel store and office building on High St., for the High St. Trust. Parker, Thomas & Rice, 110 State St., is Arch. John D. Hardy is Pres.

Chelsea, Mass.—The city has appropriated $120,000 for the construction of an addition to Williams School.

Dedham, Mass.—Bids will be received until Aug. 3 by the Building Committee for the construction of a high school. Kilham & Hopkins, 9 Park St., Boston, Mass., is the Arch.

✝Holyoke, Mass.—A. L. CARREAU, Williamsett, Mass., has been awarded the contract for the construction of a six-story store and office building on High St., to cost $60,000. P. B. Alderman & Co. is Arch.

✝Holyoke, Mass.—L. P. TROWBRIDGE has been awarded the contract for the construction of a block at Laurel and Charles St. for M. M. Mahoney.

Shirley, Mass.—Bids are being received by Densmore & Le Clair, Arch., 88 Broad St., Boston, Mass., for the construction of an addition to the Industrial School for Boys.

Southbridge, Mass.—All bids were rejected and revised bids will be received by the School Commissioners for the construction of a high school.

✝Webster, Mass.—THE TORRINGTON CONSTRUCTION CO., Torrington, Conn., has been awarded the contract for the construction of a $90,000 business block for the Corbin Estate.

✝Worcester, Mass.—The contract for the construction of a brick church for St. Casimers R. C. Parish has been awarded to E. L. SIMPSON & BROS. CO., Springfield, Mass. The estimated cost is $60,000. W. J. Donoghue, Springfield, Mass., is Arch.

Worcester, Mass.—Samuel Wolfson, 74 Providence St., will build a two-story, 62x100-ft. building on Grafton St. to cost $50,000. Edward P. Fitzflerald, State Mutual Bldg., is Arch.

Providence, R. I.—Bids will soon be received for the construction of the Beaufort St. school which will contain 19 classrooms and an essembly hall. Murphy, Hindle & Wright, 146 Westminster St., is Arch.

Albany, N. Y.—Contracts will be awarded about Aug. 1 by Merrick & Pember, Arch., 51 State St., for the construction of an eight-story, 77x95-ft. apartment at Washington Ave. and Swan St. The estimated cost is $110,000. Noted July 1.

Buffalo, N. Y.—The Delaware, Lackawanna & Western R.R. will construct a seven-story terminal building at Main and Ohio St. The estimated cost is $360,000. G. J. Ray, Hoboken, N. J., is Ch. Engr.

New York, N. Y.—(Borough of Bronx)—The House of the Holy Comforter plans to construct a modern hospital at the Grand Concourse and 196th St. The cost is estimated at $175,000. John B. Snook & Sons, 261 Broadway, New York, is Arch.

New York, N. Y.—(Borough of Brooklyn)—The Brighton Beach Development Co. plans to construct a fireproof hotel at Brighton Beach. Densmore & Le Clear, Arch., 88 Broad St., Boston, Mass., is preparing tentative plans. Chauncey Marshall is Pres. of the company.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by L. F. J. Weicher, Arch., 271 West 125th St., for the construction of a three-story motion picture theater and office building at 235-37 East 14th St. for the American Movie Co., 111 East Seventh St.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Gaetan Ajello, Arch., 1 West 34th St., for the construction of a 12-story 100x100-ft. apartment house at West End Ave. and 103d St. for Paterno Bros. Joseph Paterno, 601 West 115th St., is Pres.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids have been received for the construction and completion of a building at the Gouverneur Hospital, Front St. and Gouveneur Slip, New York, as follows: William H. Egan, Lexington Ave. and 125th St., $168,168; Charles Meade & Co., 38 Park Row, $160,000; John H. Parker Co., 315 Fourth Ave., $144,997; Norcross Bros. Co., 103 Park Ave., $152,900; P. J. Carlin Construction Co., 1123 Broadway, $158,760; P. J. Brennen & Son, 624 Madison Ave., $153,700; Cramp & Co., 25 East 26th St., $160,466; Harby Abroms & Melius, 30 East 42nd St., $158,800; J. T. Brady & Co., 103 Park Ave., $148,840; P. F. Kenny Co., 33 Old Broadway, $160,000; John Kennedy & Co., 1133 Broadway, $159,670; Simon Russek, Inc., 261 Broadway, $169,520.

New York, N. Y.—(Borough of Manhattan)—Charles A. Rich and Frederic Mathesuis, Jr., Arch., 320 Fifth Ave., have prepared plans for the construction of a hall to be known as the Students' Bldg., at 119th St. between Broadway and Claremont Ave. for Barnard College. The estimated cost is $600,000. Noted May 27.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids have been received for the construction and completion of the day room and industrial building and for alterations to the ward buildings for women at the New York City Home District, Blackwells Island, as follows: B. Diamond, 12 Bergen St., Brooklyn, $47,200; Charles Mead & Co., 38 Park Row, $53,110; Joseph Kressel Co., 1133 Broadway, $48,400; George L. Hiltl Co., 114 East 28th St., $55,936; Albert Winternitz, 237 East 72d St., $49,000; William H. Egan, Lexington Ave. and 125th St., $51,066; William Werner, 657 Vanderbilt Ave., Brooklyn, $58,673; Thomas J. Waters Co., 271 West 125th St., $49,400.

Rensselaer, N. Y.—The R. R. Y. M. C. A., 835 Broadway, plans to construct a building to cost about $68,000. A. C. Long is Secy. and Charles Gibson, Orange St. and Broadway, is Chn. of Bldg. Com.

Rochester, N. Y.—Plans have been prepared by Claude Bragdon, Arch., 415 Cutler Bldg., for the construction of a two-story, Northwest Branch of the Y. M. C. A. at Driving Park and Lake Ave. Herbert P. Lansdale, Smith Ave., is Chn. of Bldg. Com. Estimated cost, $50,000. Noted June 24.

Rochester, N. Y.—Bids will be received about Aug. 15 for the construction of a one- and two-story, 200x250-ft., brick and reinforced-concrete armory with a stable on Culver Rd. Louis F. Pilcher, State Arch., Capitol, Albany, and Walker, Livingston & Bracket, Assoc. Arch., Rochester, have prepared the plans. Noted June 24.

Schenectady, N. Y.—The Directors of Union College plan to construct a building to be known as the General Daniel Butterfield Memorial. The estimated cost is $100,000. C. A. Richmond is Pres. of the college.

✚Syracuse, N. Y.—The O'BRIEN CONSTRUCTION CO. has been awarded the contract for the construction of a three-story, 63x183-ft. brick and mill constructed building on North State St. for the S. Shapero Co. The estimated cost is $100,000.

Utica, N. Y.—The Board of Education has rejected all bids received for the construction of a two-story grade school to be known as the Kernan School in West Utica. Estimated cost, $130,000. Plans will be revised by Gouge & Ames, Arch., 70 Genesee St. Noted May 6 and July 8.

✚White Plains, N. Y.—E. T. EGGLESTON, 156 W[illegible]worth Ave., Yonkers, has been awarded the contract for th[illegible]eck-ing and excavating for the construction of the coun[illegible]urt-house on Main St. between Court and Grand St., [illegible] West-chester County. E. E. Seelye, 101 Park Ave., New [illegible], is Structural Engr. The estimated cost of the entire [illegible] is $800,000. Noted June 24 and July 15.

Yorktown, N. Y.—Lewis F. Pilcher, State Arch., Capitol, Albany, has prepared plans for the construction of additional buildings to the Mohansic State Hospital for the Insane. T. S. Elwood is Secy. of the hospital. The estimated cost is $[illegible]. Noted under Yorktown Heights, N. Y., June 3.

Bayonne, N. J.—The Board of Estimate of the Board of Education has authorized the issuing of $631,000 in bonds for improving the schools of Bayonne. The amount will be used as follows: $200,000 for the construction of buildings to replace Public Schools Nos. 1 and 4; $260,000 for an addition to the high school; $146,000 for a building to replace Public School No. 5. Noted June 24

✚Newark, N. J.—The Petty Estate has awarded the contract for the construction of a six-story store and loft building at Market and Halsey St. to the TRENTON BUILDING & CONSTRUCTION CO. Estimated cost, $98,000. Noted May 6.

✚Perth Amboy, N. J.—(Official)—J. C. FOWLER, 120 Smith St., Perth Amboy, has been awarded the contract for the construction of an addition to the high school on State St. J. N. Pierson & Son is Arch. Noted July 15.

West Hoboken, N. J.—Plans are being prepared by Heusel & Feir, Arch., 809 Savoga St., for the construction of a three-story, 50x120-ft. Masonic Temple on Palisade Ave. for the Doric Lodge, F. & A. M. The estimated cost is $40,000. William A. White, Palisade Ave., Weehawken Heights, is Chn. of Bldg. Com.

Clearfield, Penn.—The School Board will award contracts about Sept. 1 for the construction of a two-story, 112x128-ft. concrete and brick high school. Estimated cost, $80,000. Harrington & Howard, Arch., Du Bois, prepared the plans. Noted Apr. 29 and July 1.

Erie, Penn.—Bonds to the amount of $250,000 have been sold. The proceeds will be used for the construction of a high school on 26th and State St.

Langhorne, Penn.—Plans are being prepared for the construction of a college for fatherless girls to be known as the Charles E. Ellis Memorial School. The estimated cost is $3,000,000. The Commonwealth Title, Insurance & Trust Co., 12th and Chestnut St., Philadelphia, is Trustee of the Ellis Estate.

Philadelphia, Penn.—Bids will be received until Aug. 31 for the construction of an immigrant station at the Reed St. Yards, South Wharves, for the Pennsylvania R.R. Alex. C. Shand is Ch. Engr. Noted July 22.

Philadelphia, Penn.—Bids will soon be received for the construction of a three-story bank and a 20-story office building at 1416-18 Chestnut St. for the Franklin National Bank. The estimated cost is $1,000,000. McKim, Meade & White, 101 Park Ave., New York, N. Y. is Arch. and Furness, Evans & Co., Provident Bldg., Philadelphia, is Assoc. Arch. Noted July 22.

✚Philadelphia, Penn.—The contract for the construction of a ten-story, 46x164-ft. addition to the Evening Bulletin Bldg., Juniper & Filbert St., for W. L. McLean, has been awarded to DOYLE & CO., 1519 Sansom St., Philadelphia. Estimated cost, $350,000.

Philadelphia, Penn.—Plans are being prepared by Andrew Borgner, Arch., 721 Walnut St., for the construction of a four-story, 128x160-ft. apartment house at Horter and Jefferson St. for Max Lichtenstein. The estimated cost is $150,000.

Sharon, Penn.—Wallis & Carley Co. submitted the lowest bid on the general contract for the construction of the three-story, Kimberly Nurses Home adjoining the C. H. Buhl Hospital. C. H. & C. F. Owsley, Youngstown, Ohio, is Arch. Noted Feb. 18.

✚Wanamie, Penn.—The School Board of Newport Township has awarded the contract for the construction of an eight-room school to HERMAN MAILANDER, Wilkes-Barre, at $46,986.

Wilmington, Del.—A. S. Reed & Bro. Co., Wilmington, at $123,773, submitted the lowest bid on the general contract for the construction of a four-story, 85x183-ft. brick and stone addition to the Wilmington High School at Monroe St. and Delaware Ave. Noted May 6 and July 8.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

TRACK INSTALLATION

Bids were received July 9 by the Public Service Commission for track laying on the New Utrecht Ave. elevated line from (A) Ward & Tully, Inc., (B) Joseph A. McElroy, (C) W. F. Jordon, (D) Post & McCord, (E) Degnon Contracting Co., (F) Snare & Triest Co., (G) Connex Engineering & Construction Co., (H) Thomas Crimmins Construction Co., (I) Johnson-Gifford Co., (J) Charles Cooper, (K) Holbrook, Cabot & Rollins Corporation and George W. McNulty, (L) Max Raymond, (M) Joseph J. Klein, (N) James S. Frazer. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
48,770 lin.ft. for installation of hand rail	$0.10	$0.16	$0.20	$0.14	$0.175	$0.15	$0.20	$0.13	$0.20	$0.25	$0.42	$0.21	$0.20	$0.25
563 ft. b.m. for installation of plank walks	11.00	10.00	12.00	14.00	18.25	10.00	25.00	20.50	22.00	19.00	28.00	25.00	20.00	15.00
14,300 for installation of anti-creepers complete	.10	.10	.10	.10	.11	.10	.10	.12	.12	.12½	.08	.10	.08	.10
57,300 lin.ft. (a) on tangents and curves of more than 2,000 ft. radius	.60	.65	.65	.70	.68	.85	.75	.86	.80	.75	.70	.90	1.01	1.00
300 lin.ft. (b) on curves of 2,000 ft. to 701 ft. radius	1.25	1.25	1.25	1.10	1.07	1.50	1.80	1.33	1.40	1.25	1.10	1.60	1.85	1.50
5,400 lin.ft. (c) on curves of less than 701 ft. radius	1.55	1.45	1.30	1.40	1.07	1.55	2.00	1.33	1.65	1.25	1.40	1.80	2.00	1.75
14,800 lin.ft. (d) at and adjoining stations	.60	.65	.70	.75	.80	.93	.80	.86	.80	.95	.80	1.00	1.25	1.50
For installation of special work, portion 35 (lump sum)	1,000.00	800.00	840.00	1,125.00	1,350.00	1,500.00	1,200.00	1,800.00	1,600.00	2,500.00	1,050.00	1,500.00	950.00	1,000.00
For installation of special work, portion 36	1,000.00	800.00	840.00	1,125.00	1,350.00	1,500.00	1,200.00	1,800.00	1,600.00	2,500.00	1,050.00	1,500.00	950.00	1,000.00
For installation of special work, portion 37 (lump sum)	1,000.00	800.00	840.00	1,125.00	1,350.00	1,500.00	1,200.00	1,800.00	1,600.00	2,500.00	1,050.00	1,500.00	950.00	1,000.00
For installation of special work, portion 38 (lump sum)	1,000.00	800.00	840.00	1,125.00	1,350.00	1,500.00	1,200.00	1,800.00	1,600.00	2,500.00	1,050.00	1,500.00	1,200.00	1,000.00
For installation of special work, portion 39 (lump sum)	1,300.00	600.00	925.00	1,500.00	1,350.00	1,650.00	1,200.00	1,850.00	1,600.00	2,500.00	950.00	1,500.00	500.00	1,000.00
Extended totals	$71,355	$75,183	$78,525	$82,639	$85,105	$94,864	$99,414	$99,564	$100,516	$102,587	$103,781	$111,616	$116,436	$118,217

Baltimore, Md.—Bids will soon be received for the construction of an addition to the mechanical laboratory on Monument St. at Johns Hopkins University. The estimated cost is $50,000. Noted July 22.

Washington, D. C.—Plans have been prepared by Milburn, Heister & Co., Arch., Union Savings Bank Bldg., for the construction of a nine-story, 121x198-ft. office building at D, E and 13th St. for the Federal City Construction Co. The estimated cost is $950,000. Noted June 24.

Washington, D. C.—(Official)—Milburn, Heister & Co., Arch., is preparing plans for the construction of a building on Ninth and Massachusetts Ave. for the American Federation of Labor. Samuel Gompers is Pres. Bids will be received about Aug. 20. Noted July 22.

✚Richmond, Va.—The contract for the construction of a two-story brick and concrete school on Chamberlayne Ave. and Myrtle Pl. has been awarded to JOHN T. WILSON CO., Richmond, at $63,430.

✚Richmond, Va.—JAMES FOX & SONS, Norfolk, at $48,232, has been awarded the contract for the construction of a 95x114-ft. addition to the Franklin St. School and a 66x96-ft. addition to the Maury St. School. Charles M. Robinson, Inc., is Arch.

✚Berkeley Springs, W. Va.—The contract for the construction of a four-story, 56x100-ft. hotel, to be known as Hotel Raleigh, for the Berkeley Hotel Co., has been awarded to CRAISER & FREEMAN, Berkeley Springs. H. F. Wysong, Princeton, is Arch. Noted July 8.

Durham, N. C.—(Official)—The Board of County Commissioners of Durham County has commissioned Milburn, Heister & Co., Arch., Washington, D. C., to prepare plans for the construction of a six-story county courthouse and a city and county jail. The cost will be between $200,000 and $250,000. Plans will be ready for bids about Sept. 15. Noted July 22.

Greensboro, N. C.—At a recent election the citizens voted in favor of issuing $60,000 in bonds. The proceeds will be used for the construction of schools. Noted Apr. 29.

Raleigh, N. C.—The County Commissioners have been petitioned to hold an election to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of schools.

✚Atlanta, Ga.—The contract for the construction of a three-story brick apartment building on Peachtree and Fourth St. form R. P. Black has been awarded to the GUDE & CO., Grant Bldg., Atlanta. Estimated cost, $70,000. C. E. Fraser, Candler Bldg., is Arch.

Atlanta, Ga.—The Building Committee of the Emory College plans to construct several buildings on the campus. The estimated cost of the entire project is $500,000. A. G. Candler, Sr., is Member of Bldg. Com.

✚Savannah, Ga.—The contract for the construction of a Carnegie Public Library has been awarded to A. A. ARTLEY, Savannah. Noted June 17.

St. Augustine, Fla.—Bids will be received until noon, Aug. 9, by P. K. Younge, Chn., Bd. of Control of the State of Florida, Mason Hotel, Jacksonville, for the construction of a hospital for negroes at the State School for Deaf and Blind. Edwards & Sayward, 633 Candler Bldg., Atlanta, Ga., is Arch.

Anniston, Ala.—L. M. Weathers Co., Arch., Memphis, Tenn., has prepared plans for the construction of a seven-story brick and terra cotta store, office and lodge building for the Anniston Lodge No 443, A. F. & A. M. The estimated cost is $75,000. Noted July 8.

Nashville, Tenn.—Bids will be received until 9 a.m., July 31, by John F. Gaffney, Chn., of Davidson County Asylum Comn., 332 Fourth Ave., Nashville, for the construction of two additions to the Davidson County Asylum. Edward E. Dougherty is Arch.

✚Alliance, Ohio—The contract for the construction of a Masonic Temple for the Conrad Lodge No. 271, F. & A. M., has been awarded to F. C. KROEMER, Dayton. The estimated cost is $50,000. Noted June 10.

✚Canton, Ohio—The contract for the construction of the Henry Martin School has been awarded to the INDIANA ENGINEERING & CONSTRUCTION CO., Ft. Wayne, Ind., at $81,-365. Noted July 1.

Cincinnati, Ohio—Work will be started about Oct. 1 on the construction of the East Hill High School. The estimated cost is $1,000,000. Noted July 22.

Cleveland, Ohio—Bids will soon be received by Charles S. Schneider, Arch., 2248 Euclid Ave., for the construction of a building at Cedar Rd. and Euclid Blvd. for the Plymouth Congregational Church. Estimated cost, $150,000. Noted May 20.

Cleveland, Ohio—An ordinance granting a franchise to the Cleveland & Youngstown R. R. Co. has been passed by the City Council for the construction of freight and passenger terminals in the downtown district. Noted July 1.

Cleveland, Ohio—The Trustees of the Jewish Orphans' Asylum plan to construct an addition to the institute which will cost about $1,000,000.

Columbus, Ohio—The College of Homeopathic Medicine of the Ohio State University plans to construct a hospital on the campus. Estimated cost, $50,000.

Columbus, Ohio—Plans are being prepared for the construction of a hotel on South High St. on the site of the Neil House. The cost will be between $1,500,000 and $2,000,000.

East Cleveland, Ohio—Plans have been prepared by A. F. Janowitz, Arch., 323 Permanent Bldg., for the construction of a three-story commercial and apartment building at St. Clair and Hayden Ave. for H. A. Kangesser. Estimated cost, $75,000.

Lilly Chapel, Ohio—The citizens of Lilly Chapel and Big Plain have voted in favor of the question of issuing $40,000 in bonds. The proceeds will be used for the construction of a school.

Steubenville, Ohio—Peterson & Clark, Arch., has prepared plans for the construction of a brick and terra cotta addition to the Wells High School. The estimated cost is $70,000.

Wilmington, Ohio—Bids will be received about Aug. 15 by Weber, Werner & Adkins, 1206 Mercantile Library Bldg., Cincinnati, for the construction of a courthouse at Wilmington. The estimated cost is $300,000. Noted June 17.

Hammond, Ind.—Bids will be received until 8 p.m., Aug. 2, by the Board of School Trustees, for the construction of a building to be known as the Hammond Industrial High School Building. J. T. Hutton & Son, Hammond Bldg., is Arch.

Sanford, Ind.—Bids will be received until Aug. 3 by Edward B. Martin, Trustee, for the construction of a two-story, 65x80-ft. brick school. Johnson & Miller, Terre Haute, is Arch.

Ann Arbor, Mich.—The Trustees of the University of Michigan have accepted plans for the construction of a building for the Michigan Union. The estimated cost is $1,000,000. H. B. Hutchins is Pres. Noted May 13.

Chicago, Ill.—Joy Morton, Railway Exchange Bldg., has purchased a site at Washington St. and Fifth Ave., the present site of the Chicago Times Bldg., upon which he will construct a commercial and office building. The estimated cost is $1,000,000.

✚Chicago, Ill.—The general contract for the construction of a three-story, 350x700-ft. fireproof museum near 12th St. and the Illinois Central R.R. for the Marshall Field Museum of Natural History has been awarded to the THOMPSON-STARRETT CO., 343 South Dearborn St., Chicago. The estimated cost is $5,100,000. Stanley Field is Pres. Noted Jan. 28.

Chicago, Ill.—Fred Becklenberg, 29 South La Salle St., plans to construct a store, theater and office building at Division St. and Washtenaw Ave. The estimated cost is $85,000. Thomas R. Bishop is Arch.

✚Galesburg, Ill.—The MONMOUTH-GALESBURG CONSTRUCTION CO., at $40,422, has been awarded the contract for the construction of an armory. Noted June 24.

Hoyleton, Ill.—The Directors of the Evangelical Orphans' Home plan to rebuild the home which was destroyed by fire. It will be fireproof and brick and cost about $50,000.

Princeton, Ill.—Plans are being prepared by Aldrich & Aldrich, Arch., Galesburg, for the construction of a hotel. The estimated cost is $100,000.

Rock Island, Ill.—Plans will be revised by Olof Z. Cervin, Arch., 401 Safety Bldg., for the construction of a three-story school. Noted Mar. 4.

Urbana, Ill.—Plans are being prepared by J. M. White, Supervising Arch., at the University of Illinois for the construction of a four-story, 112x168-ft. stone and terra cotta dormitory for girls on Nevada St.

Appleton, Wis.—Bids are being received by Cooledge & Hodgson, Arch., 134 South La Salle St., Chicago, Ill., for the construction of a two-story bank building for the Citizens' National Bank. Estimated cost, $65,000. Noted June 10 and 17.

Eau Claire, Wis.—(Official)—Bids will be received about Aug. 6 for the construction of a municipal auditorium and city hall. The estimated cost is $50,000. George Awsumb, 14 East Jackson Blvd., Chicago, Ill., is Arch. Noted May 6 and July 15.

✚Milwaukee, Wis.—The RAULF CONSTRUCTION CO., Milwaukee, has been awarded the contract for the construction of a theater and commercial building at Downer Ave. and Belleview Pl. for the Read & Nancy Investment Co. Noted June 17.

✚Milwaukee, Wis.—The general contract for the construction of an addition to the Merrill Bldg., Second St. near Grand Ave. has been awarded to H. SCHMITT & SONS, 684 Jackson St., Milwaukee. Estimated cost, $125,000. Noted July 22.

✚Armstrong, Iowa—The contract for the construction of a three-story, 71x110-ft. grade and high school has been awarded to JOSEPH A. BASS & CO., Faribault, Minn. Estimated cost, $50,000. Alban & Lockhart, Arch., 347 Endicott Bldg., St. Paul, Minn., prepared the plans. Noted June 10 and July 8.

Grinnell, Iowa—An election will be held Aug. 16 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a high school.

Newton, Iowa—Bids will soon be received by the Jasper County School Board for the construction of schools at Newton. The estimated cost is $100,000.

Tipton, Iowa—At a recent election the citizens voted in favor of issuing $50,000 in bonds. The proceeds will be used for the construction of a county home.

Minneapolis, Minn.—Plans are being prepared by A. R. Van Dyck, Arch., 742 McKnight Bldg., for the construction of a three-story, 43x120-ft. hospital for the Maternity Hospital, 2201 Western Ave. The estimated cost is $50,000.

Lyons, Kan.—The Methodist Congregation is having plans prepared for the construction of a church. The estimated cost is $40,000. Charles D. Cuthbert, 435 Kansas Ave., Topeka, is Arch.

Kearney, Neb.—Bids will be received until 10 a.m., Aug. 3, by the Secretary of the Board of Education of the Nebraska State Normal Schools, Lincoln, Neb., for the construction of an auditorium for the State Normal School at Kearney. J. H. Craddock, 12 Continental Bldg., Omaha, is Arch. Noted Mar. 4.

North Platte, Neb.—N. McCabe contemplates the construction of a hotel at North Platte to cost about $45,000.

Omaha, Neb.—Plans have been prepared by Burd F. Miller, Arch., Brandeis Theater Bldg., for the construction of a four-story brick and stone business building at 14th and Jones St. for the Goodrich Drug Co., 1310 Harney St. The estimated cost is $75,000. Noted June 24.

Sioux Falls, S. D.—E. Jackson Casse Co., Arch., & Engr., 53 West Jackson St., Chicago, Ill., has prepared plans for the construction of a six-story, 66x87-ft. brick and stone, office and bank building at Main Ave. and Ninth St. for the Security Building Co.

Columbia, Mo.—The citizens contemplate the construction of a new brick city hall, at an estimated cost of $75,000. James M. Batterton is Mayor.

✚Kansas City, Mo.—The contract for the construction of a six-story, 50x115-ft. brick and concrete building at 21st and Grand Ave. for E. W. Shields, Board of Trade Bldg., has been awarded to the SWENSON CONSTRUCTION CO., 625 Finance Bldg., Kansas City. Estimated cost, $100,000. Wilder & Wight, 401 First National Bank Bldg., is Arch.

Kansas City, Mo.—Bids will soon be received for the construction of a two-story brick church at Benton Blvd. and Lexington St. for the Church of the Assumption. The estimated cost is $65,000. W. J. Connolly, 3210 Lexington St., is Pastor, and W. Hilton Smith, 518 Massachusetts Bldg., is Arch.

✚St. Joseph, Mo.—The contract for the construction of a theater at Seventh and Edmond St. for the Electric Theater Co. has been awarded to HACKETT & SIMPSON, St. Joseph, at $40,000. Carl Boller & Bro., 7 Gayety Theater Bldg., Kansas City, is Arch.

St. Louis, Mo.—Bids are being received for the construction of a 115x127-ft. fireproof theater at Ninth and St. Charles St. for the Orpheum Theater Co. of Missouri. The estimated cost is $450,000. Frank Tate is interested. Noted June 17.

✚Warrensburg, Mo.—The Board of Regents of the Warrensburg State Normal School has awarded the contract for the construction of the Science Hall to the CAPITAL CITY PLANING MILL CO., Jefferson City. Estimated cost, $64,000.

Warrensburg, Mo.—Plans are being prepared for the construction of a training school to cost $50,000 and a main building costing $200,000. E. J. Hendricks is Pres. of the school. Noted May 27.

Little Rock, Ark.—The Grand Lodge of the Knights and Daughters of Tabor will construct a temple. Estimated cost, $60,000.

✚Little Rock, Ark.—The School Board has awarded the contract for the construction of a two-story brick and terra cotta school to JOHNSON BROS., Little Rock, at $40,000. Thomas Harding is Arch. Noted July 1 and 15.

College Station, Tex.—The State Agriculture and Mechanical College will construct a hospital and a dairy barn. The estimated cost of the hospital is $50,000.

Galveston, Tex.—George E. Robinson, Galveston, plans to construct an eight-story hotel at Tremont and Postoffice St.

Tahoka, Tex.—An election will be held July 31 by the Commissioners' Court of Lynn County to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a courthouse and jail.

✚Okmulgee, Okla.—The Board of Education has awarded the contract for the construction of a three-story, 70x178-ft. high school to the CADDO CONSTRUCTION CO., Okmulgee, at $73,000. Other bidders were: Cashner & Leavengood, Kansas City, Mo., $94,395; A. J. Hingle, Bartlesville, $77,273; L. W. Dumas Construction Co., Richmond, Mo., $75,500; Kreipke & Schaefer, Atchison, Kan., $79,500; A. C. Campbell, Wichita, Kan., $81,100; L. F. Lee, Oklahoma City, $88,000; Lloyd Hiram Construction Co., 404 Odd Fellows Bldg., St. Louis, Mo., $85,867; Reinhardt & Donnovan, Oklahoma City, Okla., $88,200; L. Crosby & Son, 517 Massachusetts Bldg., Kansas City, Mo., $88,975; H. Ellenberger & Co., 60th St. and Swope Parkway, Kansas City, Mo., $92,327; Loftus & Skidmore, P. O. Box 350, Durango, Colo., $93,000. Smith, Rea & Lovitt, 602 Finance Bldg., Kansas City, Mo., is Arch. Noted Apr. 15 and 29.

Grand Mound, Wash.—Plans have been prepared by Watson Vernon, Arch., 1 Gabrielson & Holmer Bldg., Aberdeen, for the construction of a new administration building at the State School for Girls, Grand Mound. Estimated cost, $60,000.

Mt. Vernon, Wash.—An election was held July 24, by the School Board to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a school. Stephen & Stephen, 726 New York Blk., Seattle, is Arch. Noted June 24.

✚Ocean Park, Wash.—The contract for the construction of a reinforced-concrete theater and dancing pavilion has been awarded to MARTIN & DUGAN, Northern Bank Bldg., Seattle. Estimated cost is $60,000.

Olympia, Wash.—Bids will soon be received by the State Board of Control for the construction of two ward buildings for the Northern Hospital for Insane. Heath & Gove, Tacoma, is Arch. The estimated cost is $128,000. Noted Mar. 25.

✚Seattle, Wash.—The GRANT, SMITH & CO., Henry Bldg., Seattle, have been awarded the contract for the construction of a 120x240-ft., reinforced-concrete ice arena at Fifth Ave. between University and Seneca St. for the Metropolitan Building Co., White Bldg. Estimated cost, $70,000. Noted July 1.

✚Seattle, Wash.—MARTIN & DUGAN, Northern Bank Bldg., Seattle, has been awarded the contract for the construction of a four-story hotel on First Hill for the Quaker Investment Co., Green Bldg. The estimated cost is $80,000. R. Hamilton Towe is Arch.

Seattle, Wash.—Bebb & Gould, Arch., Denny Bldg., has prepared plans for the construction of a four-story, 45x108-ft. reinforced-concrete, fireproof, office building on Second Ave. near Virginia St. for the Puget Sound News Co. The estimated cost is $50,000. Noted under "Industrial Works June 17.

Monmouth, Ore.—Bids are being received for the construction of a two-story, 84x128-ft. building at the State Normal School. The estimated cost is $60,000. J. V. Bennes, Chamber of Commerce Bldg., is Arch. Noted Jan. 7 and June 17.

✚Portland, Ore.—The contract for the construction of a building at the Franklin High School has been awarded to JAMES S. WINTERS, Couch Bldg., Portland, at $74,897. Noted May 20 and July 22.

Portland, Ore.—Whitehouse & Fouilhoux, Arch., 809-13 Wilcox Bldg., has prepared preliminary plans for the construction of the public auditorium on the Market Blk. The estimated cost is $600,000. Noted Apr. 15.

Berkeley, Calif.—Bids will be received until Aug. 9 for the construction of a four-story, 200x200-ft. building to be known as the Benjamin Ide Wheeler Hall at the University of California. The building will cost about $800,000. Noted June 24.

Ingleside, Calif.—(San Francisco post office)—The San Francisco Golf and Country Club will construct a clubhouse. The estimated cost is $500,000.

Sacramento, Calif.—Shea & Lofquist, Arch., 74[illegible] Clarke St., San Francisco, has prepared plans for the construction of the Hall of Justice for the city. The estimated cost [illegible] 000. Noted Nov. 5.

San Bernardino, Calif.—The City Council plans to hold an election Sept. 6, to vote on the question of issuing $[illegible] bonds. The proceeds will be used for the construction of a city hall, municipal auditorium and parks. Noted June 24.

MADISONVILLE SEWER DISTRICT, CONTRACT No. 3—CINCINNATI, OHIO

Bids were received July 12 by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in the Madisonville Sewer District, Contract No. 3 from (A) Engineering Estimate, (B) Thomas P. Strack, Cincinnati, (C) Thomas Mahoney, Cincinnati, (D) Welling & Franz, Cincinnati, (E) Thrasher & Browning, Cincinnati. The item bids were as follows.

Brick	A	B	C	D	E
865 lin.ft., 33-in. brick sewer	$5.20	....	$4.00	....	$6.20
1140 lin.ft. 42-inbrick sewer	7.80	....	9.00	....	8.25
6 manholes (standard) on brick sewer, 4 ft. diameter or less	75.00	....	75.00	....	75.00
1 junction chamber (brick or concrete)	120.00	....	150.00	....	100.00
Extended totals	$13,960	....	$14,320	....	$15,326
Concrete					
865 lin.ft. 33-in. concrete sewer	$5.20	....	....	....	$6.00
1140 lin.ft. 42-in. concrete sewer	7.80	....	....	....	8.40
8 manholes (standard) on concrete sewers, 4 ft. diameter or less	75.00	....	....	....	75.00
1 junction chamber (brick or concrete)	120.00	....	....	....	100.00
Extended totals	$13,960	....	....	....	$15,326
Reinforced Concrete Pipe					
865 lin.ft. 33-in. reinforced concrete pipe sewer, complete	$5.20	$7.30	....	....	
1140 lin.ft. 42-in. reinforced concrete pipe sewer, complete	7.80	9.55	....	....	
6 manholes (standard) on reinforced concrete sewer, 4 ft. diameter or less	75.00	60.00	....	....	
1 junction chamber (brick or concrete)	120.00	100.00	....	....	
Extended totals	$13,960	$17,661	....	....	
Segmental Block					
865 lin.ft. 33-in. segmental block sewer, complete	$5.20	$7.30	$4.00	$5.00	$5.25
1140 lin.ft. 42-in. segmental block sewer, complete	7.80	9.55	9.00	7.50	7.50
6 manholes (standard) on segmental block sewer, 4 ft. diameter, or less	75.00	60.00	75.00	75.00	75.00
1 junction chamber (brick or concrete)	120.00	100.00	150.00	125.00	100.00
Extended totals	$13,960	$17,661	$14,320	$13,450	$13,641

Vitrified Pipe and Miscellaneous Quantities	A	B	C	D	E
7940 lin.ft. 12-in. vitrified pipe sewer	$2.00	$1.50	$1.75	$2.00	$1.75
2900 lin.ft. 15-in. vitrified pipe sewer	2.60	1.75	2.60	2.50	2.00
1480 lin.ft. 18-in. vitrified pipe sewer	2.85	1.90	2.80	2.75	2.30
1540 lin.ft. 22-in. vitrified pipe sewer	4.10	2.65	3.50	3.40	3.10
1480 lin.ft. 24-in. vitrified pipe sewer	3.70	3.00	3.50	3.40	3.10
470 lin.ft. 27-in. vitrified pipe sewer	5.10	6.00	5.00	6.00	4.30
600 T-branches on 12-in. pipe sewer	0.80	0.50	0.50	0.70	0.55
200 T-branches on 15-in. pipe sewer	1.00	0.65	0.75	1.00	0.80
100 T-branches on 18-in. pipe sewer	1.45	1.00	1.00	1.25	1.22
100 T-branches on 22-in. pipe sewer	2.20	1.70	2.00	1.70	2.10
90 T-branches on 24-in. pipe sewer	4.00	2.00	2.50	1.80	2.35
30 T-branches on 27-in. pipe sewer	5.00	4.50	3.50	5.00	5.30
425 lin.ft. 6-in. vitrified pipe	0.25	0.15	0.20	0.25	0.30
55 6-in. vitrified bends for chimney extension	0.40	0.25	0.30	0.30	0.30
1300 lin.ft. 12-in. vitrified pipe inlet connections	1.50	1.00	1.00	1.00	2.00
50 lin.ft. 15-in. vitrified pipe inlet connections	1.50	1.25	1.00	1.00	2.35
95 manholes (standard) on pipe sewer	60.00	55.00	55.00	55.00	75.00
Manhole, drop (lump sum)	130.00	100.00	100.00	100.00	90.00
100 6-in. stubs in trunk sewer	0.35	0.20	0.20	0.40	0.20
1 12-in. stub in trunk sewer	1.00	0.75	0.75	1.00	0.30
1 12-in. slant in trunk sewer	1.00	0.75	0.75	1.00	0.80
1 15-in. slant in trunk sewer	1.50	1.00	0.75	1.00	1.75
18 street inlets, plan 1	50.00	45.00	40.00	40.00	50.00
2 street inlets, plan 3	60.00	55.00	50.00	50.00	80.00
4 street inlets, type B	40.00	35.00	30.00	40.00	30.00
10 cu.yd. concrete masonry, class 2 (headwalls)	10.00	8.00	5.00	8.00	11.00
12 cu.yd. concrete masonry, class 2 (soft ground foundations)	8.00	6.00	5.00	0.02	11.00
40 cu.yd. concrete masonry, class 3 (chimney extensions)	8.00	6.00	10.00	7.00	10.00
100 cu.yd. masonry concrete, class 3 (Haunch walls, etc.)	7.00	6.00	7.00	7.00	10.00
1 cu.yd. brick masonry	13.00	12.00	0.02	9.00	20.00
500 lin.ft. 8-in. underdrain	0.50	0.10	0.02	0.02	0.40
10 cu.yd. gravel refill	2.00	1.75	0.02	0.02	3.00
36 lin.ft. 24-in. c.i. pipe sewer	15.00	15.00	12.00	12.00	5.00
50 sq.yd. rip-rap	2.00	2.00	1.50	2.00	1.50
100 cu.yd. special excavation	0.50	0.01	0.50	0.50	2.50
7 street inlets, type C	15.00	12.00	12.00	20.00	20.00
3 street inlets, type D	20.00	15.00	18.00	20.00	30.00
100 lb. w.i. for screens	0.10	0.10	0.06	0.10	0.10
425 lb. c.i. grating	0.10	0.10	0.06	0.04	0.05
Extended totals	$54,988	$41,894	$49,264	$51,224	$50,351

San Bernardino, Calif.—(Official)—Bids will be received about Sept. 15 for the construction of a group of buildings for the new county hospital. Lyman Farwell, Story Bldg., Los Angeles, is Arch. Noted Mar. 11 and July 15.

Toronto, Ont.—E. M. Statler, Detroit, Mich., plans to construct a hotel containing 1000 rooms at Toronto. The estimated cost is $2,000,000.

CATALOG NOTICES

The International Nickel Co., 43 Exchange Pl., New York. Catalog. Monel metal. 12 pp., 4x8½ in.

Ingersoll-Rand Co., 11 Broadway, New York. Form No. 3031. Ingersoll-Rogler Class FR-1 air compressors. Illustrated, 24 pp., 6x9 in. Form No. 4034. Leyner-Ingersoll water drill. Illustrated, 4 pp., 6x9 in.

Chicago Pneumatic Tool Co., Fisher Bldg., Chicago, Ill. Bulletin No. 34-X. Class A-G "Giant" gas and gasoline engines. Illustrated, 8 pp., 6x9 in.

The Locomobile Co. of America, Bridgeport, Conn. Catalog. Locomobile worm drive motor trucks. Illustrated, 42 pp., 8½x11 in.

Austin-Western Road Machinery Co., Chicago, Ill. Catalog. Grading, rock crushing and road surfacing equipment. Illustrated, 66 pp., 7x10 in.

I. P. Morris Co., Beach and Ball St., Philadelphia, Penn. Bulletin No. 4. Hydraulic turbines. Illustrated, 70 pp., 8½x10½ in.

A. S. Cameron Steam Pump Works, 11 Broadway, New York. Bulletin No. 104. Station and sinking pumps. Illustrated, 36 pp., 6x9 in. Bulletin No. 150. Double suction volute centrifugal pumps. Illustrated, 16 pp., 6x9 in. Bulletin No. 151. Turbine centrifugal pumps. Illustrated, 20 pp., 6x9 in. Bulletin No. 152. Single suction volute centrifugal pumps. Illustrated, 8 pp., 6x9 in. Bulletin No. 153. Centrifugal pumps for house service. Illustrated, 8 pp., 6x9 in. Bulletin No. 300. Triplex pumps. Illustrated, 4 pp., 6x9 in.

Automatic Concrete Mixer Co., Providence, R. I. Catalog. Concrete mixers—Hains-Weaver Patents. Illustrated, 32 pp., 6x9 in.

Continuous Wire Wound Pipe Co., Flood Bldg., Los Angeles, Calif. Catalog. Continuous wire wound wood stave pipe. Illustrated, 16 pp., 4x9 in.

General Electric Co., Schenectady, N. Y. Bulletin No. 42,552. Motor generator sets. Illustrated, 28 pp., 8x10½ in.

The Esterline Co., Indianapolis, Ind. Catalog No. 364. Golden Glow incandescent headlights for railway, mine and industrial service. Illustrated, 32 pp., 6x9 in.

Bausch & Lomb Optical Co., Rochester, N. Y. Catalog. Optical instruments for inspection and testing of materials. Illustrated, 36 pp., 6½x9½ in.

The Titanium Alloy Mfg. Co., Niagara Falls, N. Y. Booklet. Titanium aluminum and other standard bronze castings. Illustrated, 32 pp., 3½x8½ in.

W. N. Best, 11 Broadway, New York. Catalog. Oil and tar burning apparatus for marine, locomotive and stationary boilers. Illustrated, 32 pp., 6x9 in.

R. & J. Dick, Ltd., Passaic, N. J. Catalog. Balata belting. Illustrated, 20 pp., 3½x6 in.

The Brown Hoisting Machine Co., Cleveland, Ohio. Bulletin. Brownhoist Schnable patent drag-line bucket. Illustrated, 12 pp., 6x9 in.

The Gardner Governor Co., Quincy, Ill. Circular A-C 12. Air lift pumping system. Illustrated, 16 pp., 6x9 in.

Wallace & Tiernan Co., Inc., 136 Liberty St., New York. Catalog. Chlorine control apparatus for water and sewage purification. Illustrated, 36 pp., 9x12 in.

The Blackmer Rotary Pump Co., Petoskey, Mich. Catalog. Rotary pumps. Illustrated, 32 pp., 6x9 in.

Pneumercator Co., 118 Liberty St., New York. Catalog. The pneumercator. Instrument for weighing, registering and measuring forward and aft draft of vessels, tonnage displacement, bunker weights and consumption, etc., also depth and volume of liquids and semi-liquids. Illustrated, 6x9 in.

Orenstein-Arthur Koppel Co., Koppel, Penn. Catalog No. 911. Koppel hauling equipment for road construction. Illustrated, 28 pp., 6x9 in.

Stone & Webster Engineering Corporation, Boston, Mass. Catalog. Building construction. Illustrated, 30 pp., 6x7½ in.

Trussed Concrete Steel Co., Youngstown, Ohio. Seventh Edition, United Steel Sash Book. Illustrated, 128 pp., 8½x11 in.

Richard E. Barry Co., Boston, Mass. Catalog. Barry system fireproof floor and roof construction. Illustrated, 12 pp., 7x9 in.

Chicago Pneumatic Tool Co., 1010 Fisher Bldg., Chicago, Ill. Bulletin E-36. Duntley electric grinders. Illustrated, 8 pp., 6x9 in.

Pittsburgh Air Brake Co., 309 Carson St., Pittsburgh, Penn. Pamphlet. Snyder "No-Kicker" attachment as applied to automatic tiple valves. Illustrated, 30 pp., 4½x6½ in. Pamphlet. "Something New In Air Brakes." Address by J. Ruch Snyder at Air Brake Association Convention. Illustrated, 32 pp., 8x10½ in.

Joseph E. Love, formerly Structural Engineer for the Electrification Department of the Chicago, Milwaukee & St. Paul Ry. at Butte, Mont., has been appointed Engineer for the Board of Railroad Commissioners of South Dakota.

Albrecht Excavator and Loader—The T. L. Smith Co., Milwaukee, Wis., has recently announced that it has purchased from J. H. Albrecht the exclusive manufacturings and selling rights for his excavator and loader. This means that one of the best known crusher and mixer concerns has entered the excavator field. While a number of the Albrecht machines have been in successful use, lack of capital has limited its commercial development. The machine occupies a field about half way between hand digging and steam-shovel excavation.

CALUMET INTERCEPTING SEWER, CHICAGO, ILL.

Contract No. 2.

Bids were received June 24 for the construction of the Calumet Intercepting Sewer, Contract No. 2, from (A) Byrne Bros. Dredging & Engineering Co., (B) Marquette Construction Co., (C) John W. Farley, (D) Nash Bros., (E) Nash-Dowdle Co., (F) Henry C. Ulen. The item bids were as follows:

	A	B	C	D	E	F
4370 lin.ft. sewer, 11 ft. concrete	$34.50	$45.00	$48.00	$48.40	$35.90	$39.00
7 manholes on concrete sewer	50.00	30.00	40.00	40.00	40.00	29.00
3200 lin.ft. sewer, 12-in. vitrified tile pipe	1.00	1.50	1.50	2.00	1.50	1.50
350 lin.ft. sewer, 9-in. vitrified tile pipe	1.00	1.00	1.00	0.50	1.00	1.00
32 manholes on tile sewer, without covers	30.00	25.00	30.00	35.00	35.00	54.00
15 standard c.i. manhole cover and frame	10.00	9.00	7.50	8.00	8.50	13.00
Rebuilding existing sewer at 97th St. and Houston Ave. (lump sum)	1000.00	1700.00	3500.00	3400.00	500.00	5200.00
Crossing Commercial Ave. at 97th St. (lump sum)	1400.00	1200.00	10,000	2500.00	350.00	2800.00
Crossing C. & W. I. R.R. and C.R.I. & P.R.R. tracks (lump sum)	1500.00	1500.00	10,000	4500.00	3000.00	2400.00
88 M ft. b.m. plank road along Torrence Ave.	40.00	25.00	35.00	35.00	40.00	34.00
1700 lin.ft. relaying water service pipes	1.00	.50	1.90	.60	2.00	.70
140 lin.ft. relaying 6-in. sewer house connections	.50	.50	1.00	.60	1.00	.70
1,200,000 lb. reinforcing steel	.02½	.03	.05	.02½	.02½	.03½
500 lin.ft. additional piling furnished	.20	.20	.15	.30	.25	.35
500 lin.ft. additional piling driven	.20	.50	1.00	.30	.50	.85
5 M. ft. b.m. cribwork on piling	40.00	50.00	40.00	50.00	42.50	55.00
5 M. ft. b.m. plank foundations	25.00	25.00	25.00	25.00	25.00	25.00
5 cu.yd. additional excavation, earth	.75	.75	.75	.75	.75	.75
1 cu.yd. additional excavation, rock	3.00	3.00	3.00	3.00	3.00	3.00
5 cu.yd. additional concrete, Class A	8.00	8.00	8.00	8.00	8.00	8.00
5 cu.yd. additional concrete, Class B	7.50	7.50	7.50	7.50	7.50	7.50
1 cu.yd. additional brickwork	9.00	9.00	9.00	9.00	9.00	9.00
Extended totals	$195,583	$247,283	$307,205	$264,990	$205,596	$200,999

CALUMET INTERCEPTING SEWER—CHICAGO, ILL.

Contract No. 3

Bids were received June 24 for the construction of the Calumet Intercepting Sewer, Contract No. 3, from (A) Byrne Bros. Dredging & Engineering Co., (B) Marquette Construction Co., (C) John W. Farley, (D) Nash Bros., (E) Nash-Dowdle Co., (F) Henry C. Ulen. The item bids were as follows:

	A	B	C	D	E	F
7700 lin.ft. concrete sewer, 13-ft. diameter	$40.25	$46.00	$44.40	$55.50	$42.25	$40.00
12 manholes on concrete sewer	50.00	31.00	40.00	40.00	40.00	30.00
Connection at 100th St. (lump sum)	500.00	900.00	300.00	300.00	300.00	2340.00
Crossing under C. & W. I. R.R. and N.Y.C. & St. L. R.R. (lump sum)	2000.00	4000.00	2000.00	4000.00	3600.00	5500.00
35 M. ft. b.m. plank Roadway on Torrence Ave.	40.00	25.00	35.00	35.00	40.0	34.00
684,000 lb. reinforcing steel	.02½	.03	.05	.02½	.02½	.03½
37 tile pipe future connections, 18-in.	2.00	5.00	5.00	15.00	3.00	14.00
5 tile pipe future connections, 24-in.	3.50	6.00	5.00	25.00	4.00	14.00
5 cu.yd. additional excavation, earth	.75	.75	.75	.75	.75	.75
5 cu.yd. additional excavation, rock	3.00	3.00	3.00	3.00	3.00	3.00
5 cu.yd. additional concrete, Class A	8.00	8.00	8.00	8.00	8.00	8.00
5 cu.yd. additional concrete, Class B	7.50	7.50	7.50	7.50	7.50	7.50
5 cu.yd. additional brickwork	9.00	9.00	9.00	9.00	9.00	9.00
5 M ft. b.m. plank foundations	25.00	25.00	25.00	25.00	25.00	25.00
Extended totals	$331,882	$381,348	$380,561	$451,401	$348,602	$342,184

Oil Burning Locomotives—Morley Donaldson, Vice-Pres. of the Grand Trunk Pacific Ry., announces that the installation of oil-burning locomotives on the mountain section of the line has now been completed. These locomotives are of the most modern type, and were placed in service for passenger traffic for the first time today. They are in operation from Jasper to Prince Rupert, over 719 miles of main line. Especial interest attaches to the installation of this class of motive power, as it marks the first use of oil burners on an extensive scale in Canada. Great oil storage tanks have been erected at various points along the line for supplying locomotives with the necessary fuel. The Grand Trunk Pacific steamships Prince George and Prince Rupert, which operate from the Pacific terminal of the line at Prince Rupert to Victoria, Vancouver and Seattle, are also oil burners, and this gives the Grand Trunk Pacific nearly 1500 miles of rail and water route on which this form of fuel only is used.

EXPANSION AT STEEL MILLS

A recent report from the Youngstown district states that since the first of the year steel mills there have appropriated fully $12,000,000 for extensions and new construction. The Youngstown Sheet & Tube Co. is spending $5,000,000 for a new plant, the Republic Iron & Steel Co. has authorized the construction of new furnaces and tube mills costing $1,000,000, thus swelling this company's expenditures for development up to $3,500,000. The Youngstown Iron & Steel Co. has improvements costing $750,000 under way, the Brier Hill Steel Co. is spending $250,000, while the Trumbull Steel Co. has an extension in course of construction costing $500,000. Steel authorities assert that no other single year in the history of the Youngstown district has seen such large expenditures for new plants and additions for the production of steel and iron.

The expansion in the Youngstown district is not an isolated incident, by any means. Reports from Pittsburgh, the Middle West and the South bear indications of new construction for steel and iron plants tending to prove that expansion on a large scale is general in all the steel and iron districts of the country.

The question naturally arises as to whether or not this development of the iron and steel industry is on a scale that may, after the conclusion of hostilities and at the same time the abnormal demand for steel and iron, result in a reaction so pronounced as to largely counteract the gains derived from the war. Some manufacturers pointed out that while the volume of expansion this year is greater than the normal in 1914 the amount expended for new construction was well below the average, so that this year's investment instead of being in the nature of a too rapid advance makes up more or less for the lethargy that pervaded the steel industry last year, causing suspension of development. But on the other hand, some of the steel manufacturers who look forward to a marked reaction after the conclusion of the war openly state that conservatism should pervade the steel industry at this time and that too rapid expansion may make the burden to be carried after peace is declared all the more great.

Each day brings new reports of the increased demand for steel. Mills are enjoying production at the rate of fully 85% of capacity and further increases are regarded as a certainty. A few incidents that can be regarded as pointers may be cited. The open hearth steel capacity is, with a few exceptions, in full operation. The purchase of pig iron by the Republic Iron & Steel Co., which normally produces enough pig iron for its requirements, the buying of billets by the United States Steel Corporation, estimated at 70,000 tons, all strikingly tell of the period of prosperity that today obtains in the steel trade. New war orders for shells, rails, cars, etc., have been noted during the past fortnight and inquiries are in the market that portend further active buying of shells by Russia. Italy and Australia have been in the market for rails and this business, amounting to over 30,000 tons may soon be closed.

War business, which for a considerable time furnished the greatest impetus for the steel trade, is finding a strong competitor at the present time in domestic business. The advances in the prices of structural steel, bars, shapes and plates have forced steel consumers to enter the market for requirements that they would not have purchased until this winter. Although the new price of $1.30 is not being firmly maintained, the advance from $1.25 has placed a large volume of domestic business on the books of the steel companies. The latest report of the fabricating association shows that bookings in June reached 80% of capacity against an average of 62½% in the preceding three months. Thus June has been the best month since April, 1914. The city of New York is to be a large purchaser of steel in the next fortnight. The awarding of the 37,000 tons rail contract to the Bethlehem Steel Products Co. by the Public Service Commission is but a forerunner of the steel orders to be placed on the market by that board. Five important subway contracts are to be awarded shortly and the steel involved amounts to over 25,000 tons. Railroad buying shows a marked tendency to improve. The recent inquiries for automobile cars are to be followed, if reports are correct, by fairly large buying of ordinary freight cars by some large Eastern roads.

Progress on New York Subway Work—Bids were opened July 27 by the Public Service Commission for the construction of two sections on two of the most important lines of the dual system in Manhattan and Brooklyn, namely, one section of the Broadway subway in Manhattan and one section of the Eastern Parkway subway in Brooklyn. In addition the Commission opened bids for the supply of rolled manganese rails, for use on all lines of the dual system not already provided for.

The contract for the Broadway subway is for Section 3 of Routes 4 and 36. This section begins at 38th St. and runs north under Broadway to 42d St., where it crosses under the line of the existing subway and continues north through Seventh Ave. to 51st St. The plans call for a four-track railroad, with an express station at 42d St. and a local station at 49th St. The Broadway subway is to be operated by the New York Cosolidated R.R. Co. under the contract between the city and the New York Municipal Ry. Corporation. It runs from the lower part of Manhattan Island to 59th St. and through 59th and 60th St. to the East River, which it will cross probably by tunnels to a connection with the new rapid transit lines in Queens over which the Brooklyn company will have trackage rights. On the southern end it will be connected through Canal St. and the Manhattan Bridge with the Fourth Ave. subway in Brooklyn, and also with the same subway by a new tunnel from Whitehall St., Manhattan, to Montague St., Brooklyn. It is a four-track line from City Hall to 59th St. All other sections on this subway in Manhattan are already under contract. The Eastern Parkway contract is for Section 3 of Route 12, which runs under Eastern Parkway, Brooklyn, from Nostrand Ave. to Buffalo Ave. The contract calls for a four-track railroad, with stations at Kingston Ave. and Utica Ave., the latter an express station. The method of construction will be by open trench excavation except at cross streets, where it will be under cover. The Eastern Parkway subway is for operation by the Interborough Rapid Transit Co. as an extension of the existing subway. It runs from the terminus of the present subway at Atlantic and Flatbush Ave., Brooklyn, under Flatbush Ave. and Eastern Parkway to Buffalo Ave., beyond which point there will be an elevated extension through East 98th St. and Livonia Ave. to [illegible] Rd. With the exception of the work under the Long Island R.R. station at the present subway terminus all other underground work on the Eastern Parkway line is under contract. It will have a two-track branch subway down Nostrand Ave. to Flatbush Ave. One section of this line is already under contract, and bids for the other section will be opened this week.

The contract for manganese rails is for the supply of about 2200 tons to 3000 tons of standard and short lengths, and the bidder was required to bid upon the time of delivery. These rails will be used upon about 230 miles of single track of the new subway and elevated lines to be owned by the city. The city has already purchased the main open hearth steel rails for such lines. Under today's bidding the successful contractor must have the first lot ready for delivery within 60 days from the delivery of the contract and the remainder as called for. Each proposal was accompanied by a certified check for $25,000. The bond for the faithful performance of the contract is fixed at $25,000.

Expanding Foreign Trade—Exports to Germany during April were zero, according to an analysis of the foreign trade issued by the Department of Commerce Monday. During April last year, however, the exports to Germany amounted to more than $18,000,000. The exports to the United Kingdom, however, amounted to more than $94,000,000 during April, an increase of more than $57,000,000. The exports to Austria-Hungary, the Department reports amounted to but $1249 in April, whereas it was nearly $2,000,000 in April, 1914. The loss in trade with Germany and Austria has been more than made up in the increase in trade with the Allies. This is the first time since the outbreak of war that the Department has reported, however, that the United States shipped not a cent's worth to Germany. The imports from Germany during April amounted to $2,600,000, a reduction of nearly $14,000,000 for the month. The imports from Germany ending with April amounted to $86,000,000, just a little over one-half what they were during the same ten months last year. The exports to Germany during the ten months have amounted to nearly $29,000,000, a reduction of about $280,000,000.

During April the United States shipped to France, $51,000,000 worth of merchandise, an increase of $43,000,000; to Italy, $19,000,000 worth, an increase of $14,000,000; to the Netherlands, $20,000,000, an increase of $11,000,000; to Norway, $3,500,000, an increase of $2,800,000; to Russia in Europe $4,800,000, an increase of $2,000,000, and to Sweden $5,900,000, an increase of $4,800,000. Italy is the only European country from which the United States has obtained an increased volume of imports during April. The imports from Italy amounted to $6,600,000, an increase of $1,600,000. There was an increase of about $10,500,000 in the imports from Cuba, an increase of $3,000,000 in the imports from Argentina; an increase of $2,000,000 in the imports from Brazil; an increase of about $1,000,000 in the imports from Japan, and an increase of $1,800,000 in the imports from Australia. The total exports from the United States in April amounted to $294,746,117, against $162,550,870 in April, 1914, while total imports were $610,576,106, compared with $173,896,476 a year ago. For the ten months' period ended with April, exports were $2,225,823,986, against $2,045,772,785 in the same period a year ago. Imports for the ten months' period were $1,374,189,749, against $1,572,438,054 a year ago.

An analysis of the tabulated report for ten months shows that despite the so-called war orders the exports of manufactures of all kinds other than foodstuffs have been less than in the similar period before the war. The normal sales of manufactures during peace were greater than those under existing war conditions. Because of this fact and of the extraordinary shrinkage of exports of crude materials it is found that the net increase in our total exports has been wholly in foodstuffs and in that item of foodstuffs which covers those in crude condition and food animals.

On the import side it is noteworthy that there has been an absolute increase in the ten months of importations of foodstuffs partly or wholly manufactured. The larger part of the total shrinkage of total imports has been in the items of manufactures and particularly in that of manufactures ready for consumption.

An Arbitrary Reduction of a Contract Price by a Government officer was overruled by the Comptroller of the Treasury in a decision rendered June 18 on the claim of W. R. Grace & Co. According to the recital of facts in the Comptroller's decision, W. R. Grace & Co. in May, 1913, contracted to deliver on the Isthmus of Panama some 635,000 ft. of creosoted Douglas fir for $53.70 per M. ft. The timber was to be treated with not less than 16 lb. of dead oil per cubic foot was to receive a preliminary inspection at the creosoting works and at the loading dock on Puget Sound, and final acceptance was to be made after delivery on the Isthmus. On the first shipload sent by this contractor, the Government representatives failed to make any accurate test to determine whether the timber had received the proper amount of creosote. It was, however, inspected by the depot quartermaster as delivered, and was paid for under his certificate. On the second shipment sent by the contractor, including much the larger part of the order, the Bogardus Testing Laboratories were employed by the Government to inspect the work. They reported creosoting in excess of the contract requirements. In the use of the first shipload delivered, however, the engineer in charge thought he detected insufficient creosoting. After weighing nine pieces of untreated and eight pieces of treated lumber, and finding the average weight of the treated was 45.9 lb. against 38.8 lb. per cu.ft. for the uncreosoted, he reported that the timber had not been properly creosoted. Similar tests were made by two other engineers, one of whom recommended a reduction of $15 per M-ft. in the price to be paid for the lumber, and another $10 per M. The chief quarter-master, after studying the reports of the two engineers, fixed upon a reduction of $18.12 per M. The Comptroller of the Treasury concludes that the tests made by the engineers on the Isthmus were unreliable as proof that the creosoting was actually deficient, and that the Government representatives had no right to arbitrarily reduce a contractor's price on the basis of these tests. R. D. Micou, of Washington, acted as attorney for the claimant in the prosecution of the case before the Comptroller.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PRICE CHANGES AND THE BUSINESS OUTLOOK

With the turn of the year came a change for the better in general business. This was pronounced in the steel trade, perceptibly felt in the dry goods industry, and its influence noted in other trades all along the line. It was less felt in the engineering and contracting field than in any other, but that was to be expected, for business activity has always shown later in this field than in any other.

The iron trade is phenomenally good. The leading interests are operating at the rate of 93% of capacity, and the independent mills are even more actively engaged. Of course, a goodly share of this is for war orders, perhaps 25% of the total output, but domestic trade is continuing without abatement week by week, and it is only a question of time when car orders will be much larger. There have been numerous advances in iron and steel products, and the scrap market continues to make new high records almost weekly.

The volume of war orders is almost beyond comprehension, and if the trade were not satisfied with the large volume of business being booked, there is every reason to believe that a strong effort would be made at the coming session of Congress to put through a bill which would result in piling up munitions of war in the United States on a stupendous scale.

The ridiculous prices which have been current for metals have given way. Electrolytic copper has been sold down as low as 18½c. This, however, was not from the producers but from second-hands who had overbought. This, perhaps, was an extreme figure, but it did show that the market was to some extent artificial. The price of tin has likewise declined, lead is easier, and spelter down to more nearly normal level.

The activity in shipbuilding work continues. It will be a question of only a short time before new shipbuilding yards will be projected, and probably on an enormous scale. An extensive program of steel building capacity has been arranged in the Youngstown district, and it is evident that the producing capacity will soon be found to be too small for the demand.

The agricultural outlook is more promising but not as hopeful as it might be. The corn crop is late. There is no doubt that it is two to three weeks behind normal. Of course with a succession of hot days great improvement would be shown, as the plant has a good start and the acreage is large. The corn crop has for a great many years been more or less a true guide to business activity. Of course it will not be so much of a factor this year when there will be large exports of wheat.

Construction in New York is active, although building has fallen off. The subway work keeps up, and some extremely large contracts for track materials, ballast, and the like will be let in the next few weeks. There is no doubt that every effort has been made to push construction work on the subway at a time of low prices.

Financial conditions are very satisfactory. The indebtedness of the United States to Europe has been greatly reduced, but not altogether eliminated. The stock of gold in this country is abnormally large. Capital is available in limited amounts for new enterprises, but the supply of time money is almost beyond comprehension. It is undoubtedly a period of economy, retrenchment, and paying of bills, but such a period of affairs, be they those of a nation, a state, or an individual, leads to wealth in a very short time.

CEMENT, LIME AND BRICK

Portland Cement—The prices of cement show no change compared with last month, and the demand is slightly better. It cannot be said that any of the mills are rushed with orders, but there is undoubtedly considerably more business than there was a month ago. The advance of July 1 did not retard buying to any marked degree, but it did not hasten matters at all. The price is now $1.42 New York, equivalent to $1.02 less the charge for bags. The following quotations are current at the points named, and do not include the usual charge for bags:

Chicago	$1.11	Boston	1.26
Detroit	1.20	Cleveland	1.20
Jersey City,	.84	Duluth	1.37
New York	1.03	Minneapolis	1.37
St. Paul	1.37	Pittsburgh	1.05

Brick—The market in New York is very quiet. Some talk is heard of the Hudson River brick yards closing down late in August or early in September. This step will be taken to prevent any accumulation either at the yards or in New York. The price is attractive to those who believe building will improve for brick can be had at $5.25 to $5.75 New York.

Labor—The demand is small, yet some orders have been received by labor agencies in the City of New York, offering $1.65 and $1.70 for laborers to go out of town, and it has been impossible to fill these. There is great deal more work than a month ago, and fewer men to do it; but the expected shortage of labor which has been predicted, has not as yet materialized. Of course, it is the belief of those who have given the matter much careful attention that this is simply postponing the time and not in any way lessening the belief that there will be a real shortage later. It is evident that a great deal of the surplus labor has been taken in hand, and put to work; while an epidemic of strikes late last month may be taken to indicate that the point has nearly been reached when laborers could be induced to work for the same rate of pay as formerly.

Crushed Stone—Considerable exception has been taken to statements made in "Engineering News" a month ago that "as low as 65c. per cu.yd. alongside of dock has been done," and this is vigorously denied in certain quarters. There is no doubt, however, that some low quotations have been made. For example, late in the month of July there was vigorous bidding on a contract for 6000 yd. of 1½-in. stone for the Dock Department, and as low as 62c. was bid. There was another bid of 65c., and an oldtime seller of stone bid 67½c. It was pointed out, however, that this was a very desirable contract, as the Dock Department takes a great deal of its material in the winter, when times are usually dull. Considerable interest is evidenced about a contract for 300,000 yd. for ballast for the New York municipal railways, and there is undoubtedly more business than a year ago.

IRON AND STEEL

Pig Iron—The chief interest in the pig iron market has been the rapid expansion in the demand for steel-making iron. Foundry iron has not picked up with the quickness evident in the market for steel-making iron, but it has gone ahead faster than most people believe. There is little doubt that a great deal of the cheap iron has been gathered by speculators, who will keep it off the market until prices are considerably higher. As it is, there are not many furnaces that are disposed to sell far ahead at prevailing prices. Most of them are anxious for business for nearby delivery, but fight shy of future contract. This is the most healthy sign of the market. Of course, many of the furnaces have a good back log in orders placed some time ago, at lower prices it is true, but still sufficiently remunerative to make them quite independent as far as new business is concerned. Prices as stated are considerably higher, and for lots of 100 tons and over prices named are as follows:

Cincinnati Southern Foundry No. 2, $13 to $13.50; Cincinnati Northern Foundry No. 2, $14.25 to $14.75; Cincinnati Northern Foundry No. 3, $14.25 to $14.50; New York Northern Foundry No. 2 plain, $13.75 to $14; New York Southern Foundry No. 2, $14.25; New York Northern Foundry No. 2X, $14.25 to $14.50.

In Chicago, Northern Foundry No. 2 is $13 to $13.50; in Birmingham, Southern Foundry No. 2 is $10 to $10.25. In Pittsburgh, Bessemer iron is $15.20 and basic $13.95. These quotations include the 95c. freight charge from the valley to the Pittsburgh district.

Steel Rails—Business is active, the leading mills of the United States Steel Corporation running practically full time, but some of their operations are confined to light rails, chiefly for the lumber interests, for the coal mining industry is not buying rails to any extent. The rail mills have recently taken some work for rounds which will go into shrapnel. The order for the Russian Government has been partially closed, but there is still quite a little more foreign business that has to be developed. There is no doubt that the railroads will buy more rails for track maintenance this year than they did last, but they are still economizing to a marked degree. Quotations show no change, and for lots of 1000 tons or over, prices are as follows: Standard sections of Bessemer, $28; open hearth, $30; both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per gross ton; in 60-ft. lengths $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, prices given being in cents per lb., are as follows: Standard sections, 1.25c.; 20- to 30-lb., 1.15c.; 15- to 20-lb., 1.20c.; 12- to 18-lb., 1.25c.; 8- to 12-lb., 1.30c.

Track Supplies—Makers of spikes have not received any orders lately, but they say that the railroads have contracted for enough material to keep them busy for several months to come. Prices of spikes are unchanged, the demand for tie plates continues to increase. Standard railroad spikes are quoted at 1.50 to 1.55c., track bolts and square nuts, 1.90 to 2c.; all in carload lots. Tie plates are $25 to $26 per net ton at the mill. Angle bars are quoted at the unchanged price of 1.50c. Chicago. These prices, with the exception of those for tie plates, are given in cents per lb.

Structural Materials—The rapid increase in the amount of work required for New York City has kept many of the structural mills busy. Subways and rapid transit extensions in New York are demanding more steel than any one thought they would a year ago. In consequence, this has proved a very good foundation, then, too, there have been a number of hurry orders for structural steel for factory work. All of this stuff has been of the utmost urgency, for delivery was essential, and sometimes be only requisite. In the Youngstown district there is an active program of steel mill construction going on, and this is taking a very fair tonnage of steel. The railroads are not heavy buyers of steel at present, but the car supply must be augmented soon. Prices show no change from last month. I-beams 3- to 15-in., channels 3- to 15-in., angles 3- to 6-in., T's 3-in. and over, are 1.25c. Pittsburgh. Other quotations, including I-beams over 15 in., H-beams 18 in. and over, channels over 15 in., angles over 6 in., are $1.30. Cutting to specified lengths is charged at the following rates: 2 ft. to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., 1.55. No charge is made for cutting to specified lengths above 3 ft. In Philadelphia, the base price is $1.41; in San Francisco, $2.05 to $2.10; in New York, $1.42. All of these quotations are per 100 lb.

Plates—The shipbuilding works are taking plates freely, but the car builders have not bought as many plates as was expected. The mills rolling plates are fairly busy, and prices are firm. Car orders include 1000 gondolas for the Lake Shore, 1500 automobile cars for the New York Central, a number of mine cars for a coke concern, as well as coal cars for some of the smaller lines. It is evident that shipbuilding work will continue to be just as active as it has been, for

the next two or three years. It is possible that some new shipyards may be built on the Atlantic Coast. The minimum for plates is now $1.25 Pittsburgh. This is equivalent to $1.34 Chicago, $1.41 Philadelphia, and $1.42 New York. All of these quotations are per 100 lb.

Pipe—The demand for pipe is good. There is more of a demand for small pipe than there was a month ago, and since the prices of galvanized pipe have come down to a more sane level, there has been a fair amount of buying there. The orders for line pipe have not been as heavy as they were two months ago, but the demand for merchant pipe shows a considerable increase.

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	57½%
2½- to 6-in. steel, lap welded	78%	56½%
7- to 12-in. steel, lap welded	76%	54½%

At these discounts the net prices of pipe per foot, in large in lots Pittsburgh, are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.43	4.88	5-in.	32.56	64.38
1-in.	3.57	7.22	6-in.	42.24	83.52
1¼-in.	4.83	9.77	7-in.	57.12	1.08
1½-in.	5.77	11.68	8-in.	60.00	1.13
2-in.	7.77	15.72	9-in.	82.80	1.56
2½-in.	12.87	25.44	10-in.	98.88	1.87
3-in.	16.83	33.27	11-in.	1.11	2.10
4-in.	23.98	47.41	12-in.	1.21	2.31

Sheets—The market for sheets is more or less mixed. There is no doubt that black sheets are considerably stronger, and that the mills are operating at even a higher ratio than a month ago, and there is a very fair business. On the other hand, there has been a sharp cut in the price of galvanized sheets. This does not represent so much the reduction in the price of spelter, although that has been considerable, but it represents a disposition on the part of those mills which have spelter bought or contracted for at much lower prices, to realize something on their contracts. The reduction in the price at the mill amounts to fully $20 per ton, but this has not been followed up at the same ratio by the stores in New York. Of course such a reduction will come later. At the present, however, prices are at such a high level that they seriously restrict consumption. The sheet trade is not so active as the other lines of steel industry, perhaps because the present activity in the steel trade is due to abnormal causes and not especial activity in the building trade. It is probable, however, that the sheet business will improve somewhat a little later. The following quotations are for large lots of sheets f.o.b. Pittsburgh and small lots in stone; New York.

	Cents per Pound — Large lots Pittsburgh		Warehouse delivery New York	
	Black	Galv.	Black	Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.75
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

	Cents per Pound — Large lots Pittsburgh		Warehouse delivery New York	
	Black	Galv.	Black	Galv.
No. 10	1.55	3.50	....	....
No. 12	1.55	3.60	....	....
No. 14	1.60	3.60	....	....
No. 16	1.65	3.70	2.35	5.00
Nos. 18 and 20	1.70	3.85	2.40	5.15
Nos. 22 and 24	1.75	4.05	2.45	5.30
No. 26	1.80	4.20	2.50	5.45
No. 27	1.85	4.35	2.55	5.85
No. 28	1.90	4.50	2.60	6.00

Cast Iron Pipe—There has been no great animation in the pipe market, except that pig iron has imparted a new steadiness to the pipe trade. It will be recalled that last year there was a great deal of scattered buying by the small private companies, who were making extensions. This continued during this year, and some of the larger cities are now in the market, though it cannot be said that the pipe market is especially animated. In New York prices are steady, 6-in. pipe, Class B, being quoted at $22.50 to $23, Class A pipe $23.50 to $24; and the same price applies to gas pipe. In Birmingham, business is active, and quotations f.o.b. yard are as follows: 4-in., $20.50; 6-in. and upward, $18.50. Gas pipe is $1 per ton higher. In Chicago 4-in. pipe is $26; 6- to 12-in., $24; 15-in .and upward, $23.50. There has been a fair amount of bidding in that market.

Steel Sheet Piling—Prices are steady and without change, at $1.55 to $1.60 per 100 lb. f.o.b. Pittsburgh.

Wire—Trade is extremely active, the mills have orders sufficient to carry them well into the fall. Some mills are well assured that they will have no slack time for the remainder of the year. The foreign demand for barbed wire is continuous and insistent. Takings have been large. Prices are somewhat higher, plain and annealed wire being quoted at $1.40, galvanized barbed wire and fence staples, $2.50; painted barbed wire, $1.70; polished fence staples, $1.70. All these quotations are f.o.b. Pittsburgh per 100 lb. and large lots. The discount on woven wire fencing is 69% [illegible] list in carload lots, 68% from list in 1000-rod lots, and [illegible] for small lots.

Old Materials—The market is much more acti[illegible] prices are higher, and in general there is a feeling that re[illegible] better-ment has at last made itself felt. This is evident [illegible] every hand, but in particular in steel scrap. In New [illegible] the market is broader, prices are from 50c. to $1 per to[illegible] higher than last month. In addition, there is quite a fair [illegible]ume of business ruling. Prices in New York are as follow[illegible]

	Per Gross Ton
Heavy-melting steel scrap	$10.00 to $10.25
Pipes and flues	8.75 to 9.25
No. 1 railroad wrought	11.25 to 11.75
	Per Net Ton
Stove plate	$8.75 to $9.00
No. 1 machinery cast	11.75 to 12.25
Wrought turnings	6.50 to 6.75

In the Chicago market there has been some extremely heavy buying by large interests. The Illinois Steel Co. alone has taken at least 20,000 tons of scrap at a price of $11 per gross ton, which represents a considerable advance over last month. The reason for this was the inability of the blast furnaces of the Gary works to keep pace with the open-hearth capacity. This probably will be rectified in a few days, but nevertheless the market has been established on a higher level, and many who are in a position to judge the market think that this higher level will be maintained for some time to come. Quotations in the Chicago market, as stated, are much higher, as follows:

	Per Gross Ton
Heavy-melting steel scrap	$11.25 to $11.50
	Per Net Ton
No. 1 railroad wrought	9.50 to $9.75
No. 2 railroad wrought	9.75 to 10.00
No. 1 cast scrap	9.50 to 10.00
Pipes and flues	7.00 to 7.25
Agricultural malleable	8.75 to 9.00
Railroad malleable	9.50 to 10.00

In the Pittsburgh district the principal item of demand is heavy melting steel scrap, the price of which has advanced from $11.75 to $12.75, and even at the latter figure dealers state that they cannot secure adequate supplies. There is an unusual clamor for this kind of scrap, and it does not look as if it would be satisfied for some time to come. In other lines there is not any special activity, machine shop turnings being slightly lower, owing to the enormous tonnage coming on the market, and railroad malleable showing a gain of 50c. per ton. Quotations in the Pittsburgh district are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$12.75 to $13.00
Rerolling rails	11.50 to 11.75
No. 1 foundry cast	12.00 to 12.25
Old car wheels	11.75 to 12.00
Machine shop turnings	7.50 to 7.75
Railroad malleable	11.00 to 11.25

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

[illegible] in.	$7.50	½ and [illegible] in.	$3.00
[illegible] in.	4.95	[illegible] and [illegible] in.	2.90
[illegible] in.	3.95	[illegible] and [illegible] in.	2.80
⅜ in.	3.40	⅞ and [illegible] in.	2.70
[illegible] in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
[illegible]-in. and ¼-in.	$1.50	$2.00
[illegible]-in. and larger	1.25	1.75

Wire Rope—Business is good, but prices for galvanized rope are considerably higher. Discount off list for galvanized is 40 and 5%; for bright it is 55 and 5; and special brands of bright are sold at 50 and 5. At the above discounts the net price of wire rope at the mills is as follows:

Diameter in Inches	Price per Foot — Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, inculding plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.: Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30c.; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 80c

Merchant Steel—Business is steady, and shows a distinct improvement, and while the advance that was felt to be imminent a month ago has not materialized, it is evident

that the manufacturers themselves are getting more for their product, and it will only be a question of time when the quotations which are for small lots from jobbers' store, and given below, are revised:

	Cents Per Pound
Refined iron:	
½ to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in.	1.85
1½ to 4 in. x ¼ to ⅝ in.	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in.	1.85
1 to 6 in. x ¼ and ⅝	2.00
Rods—⅝ and ½ in.	1.95
Bands—1½ to 6x⅝ in. to No. 8	2.15
Beams and channels—3 to 15 in.	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ⅛ in. and ⅛ in.	2.35
1½ to 2¾ in. x ⅝ in. and thicker	2.00
1½ to 2½ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅝ in.	2.10
1 to 1¼ in. x ⅛ in.	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅝ in.	2.15
3 in. and larger	1.95

Triangle Mesh—The market is steady and the demand shows a slight improvement. Quotations are as follows:

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.140	1.48	1.80	1.64	1.96
35	0.109	1.17	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—Business is only fair but the market is strong due to the fact that mills rolling these bars are also working on shrapnel bars. Prices are as follows:

Size	Cents per Pound—Mill Shipments Pittsburgh	Cents per Pound—*Warehouse Pittsburgh	Cents per Pound—Delivered from *Warehouse New York
¾-in. and larger	1.25	1.60	2.05 to 2.10
⅝-in.	1.30	1.75	2.10 to 2.15
½-in.	1.45	1.90	2.25 to 2.30
⅜-in.	1.55	2.00	2.35 to 2.40
¼-in.	1.83	2.30	2.70 to 2.75

*Bars from warehouse are cut to desired length without extra charge.

METALS

Copper—Electrolytic copper sustained a break in price during July, both here and abroad, as a result of the further evidence of accumulation in the hands of producers. Small producers who have been accumulating the metal for some time hoping foreign buying would soon be renewed, offered the metal down to 19c. which price was 1½c. less than the ruling price July 1. General opinion indicated that the recent high prices stimulated production considerably beyond requirements and lower levels are anticipated. Much confidence is expressed, however, in a resumption of domestic requirements as a result of large orders for munitions placed in this country. But July was a disappointment to the large producers. As compared with June the month was extremely dull, although there were some sales by large producers at prices ranging from 20c. down to 19c.

Tin—Large imports of tin and an increase in stocks afloat, materially effected the market producing a marked decline in prices during July. Besides the actual amount of business consummated was not nearly as large as dealers had anticipated. Large buying orders did not materialize with the steady decline in prices and dealers were forced to admit that consumers were well supplied for current needs and were holding off waiting further declines before purchasing. At the beginning of July spot tin was held at 41c. while at the close of the month offerings were made as low as 34¾c. Arrivals of tin for July amounted to 3439 tons, while stocks afloat to this country total 5415 tons.

Lead—Dullness ruled in the lead market during most of the month reflected in a slight decline in prices. The metal was steadily offered by outside interests at concessions resulting in prices showing a net decline for the month of only ¼c., indicating that the supply is firmly held. The American Smelting & Refining Co. reduced its price late in the month to 5½c.

Spelter—Irregularity ruled in the market in spelter during July with the closing quotations about 4c. per lb. less than at the beginning of the month. The possibility of the workers in the Joplin section striking produced uneasiness early in the month with the producers reflected in a strong market but after settlement of the difficulty prices declined steadily until the end of the month when spot was quoted at 18¼ to 18½c.

Old Metals—Prices quoted are nominal. The market eased off under pressure of free selling.

	Cents per Lb.
Copper, heavy cut and crucible	17
Copper, heavy and wire	16⅝
Copper, light and bottoms	14½
Heavy machinery comp.	12½
Heavy machinery composition	12½
Brass, heavy	11½
Brass, light	10
No. 1 clean brass turnings	14¼
No. 1 composition turnings	13
Lead, heavy	4⅞
Tea had	4⅛
Zinc scrap	14

MISCELLANEOUS

Sewer Pipe—The demand has decreased and as a result there has been a drop in price, the following discounts being effective: On 3-in. to 24-in., 82% off list; 27- to 30-in., 72%; 30- to 36-in., 67%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

Flue Lining—While the demand for this material is considered fair, a discount of 84% off list is holding firm. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.056	8½x18-in.	45	$0.144
4½x13-in.	20	0.072	13x13-in.	45	0.136
7½x7½-in.	15	0.064	13x18-in.	57	0.192
8½x8½-in.	18	0.072	18x18-in.	75	0.32
8½x13-in.	28	0.104			

Blue Stone—Dealers report business as being exceedingly dull. Bronx flagging sells at 17c. per sq.ft. and Manhattan 18c. per sq.ft. Curbing prices are steady, 5x16-in. selling at 40c. per lin.ft., and 5x20-in. at 45c. Sewer bottoms 5x5-ft. by 3 in. are quoted at 25c. per sq.ft. Belgian bridging, 5x24-in., sells at 65c. per lin. ft.

Swedish (Norway) Iron—There is a decided shortage of material on hand, and it seems almost impossible to expect any shipments from foreign quarters. Prices have been so elastic that at present quotations have practically been withdrawn.

Railway Ties—A decided inactivity characterizes the market. First-class standard ties 7x9-in. by 8 ft. 6 in. sell at 72c., 6x8-in. by 8 ft. at 60c., these prices being f.o.b. New York.

The Total Wealth of the United States in 1912, according to an estimate just completed by the Census Bureau, was $187,739,000,000. Of this amount $110,000,000,000 is represented by real estate, $16,000,000,000 by railways and their equipment, $4,600,000,000 by street railways, $1,500,000,000 by shipping and canals, $2,100,000,000 by electric light and power stations and $6,100,000,000 by machinery, tools and factories. There has been an enormous increase in wealth since 1904, when the last estimate was made and when the total was $107,000,000,000. The bulletin also gives an estimate of the comparative wealth of the nations based on statistics of 1904. At that time the British Empire, including all its colonial possessions, had an estimated wealth of $108,000,000,000, or substantially the same as the United States. France had $47,000,000,000 and Germany $78,000,000,000.

Drainage of the Everglades in southern Florida has been carried on in a limited way by the state for a number of years, but with results generally unsatisfactory. Part of this has been due to the lack of adequate engineering plans for the conduct of the work, and part has been due to doubts as to the legality of bonds issued by the state to raise money for carrying on the work, which doubts have interfered with the sale of the bonds. The drainage work has hitherto been in charge of a board made up of state officials who hold their positions as members of the board by virtue of their office. A bill is now pending in the Florida legislature which places the control of the Everglades drainage under a commission of three men to be appointed by the Governor, who are to devote their whole time to the work. All the public lands owned within the district which are owned by the state will be transferred to the district and may be sold to raise funds to pay for the work of drainage. The bonds to be issued for the work are limited to a term of 30 years.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Springfield St. Ry.—The City Council of Springfield, Mass., has granted a franchise to this company for the construction of an electric railway from East Springfield to Chicopee. R. W. Reynolds, Springfield, is Mgr. Noted July 8.

New York—Buffalo Southern Ry.—This company plans to extend its line from Buffalo St. to Pierce Ave., Hamburg, N. Y. Frederick Wing, Buffalo, is Ch. Engr.

New York—International Ry.—This company has been granted a franchise to construct a special track on Michigan Ave. and Ohio St., Buffalo. J. C. Sheldon, Buffalo, is Pur. Agt. Noted July 29.

New York—New York State Ry.—This company contemplates the extension of its line on Elm St., Utica. B. E. Tilton, Utica, is Gen. Mgr.

New York—Niagara River & Eastern Ry.—This company has applied to the Public Service Commission for permission to construct an electric railway from Lockport to Niagara Falls.

New Jersey—Arthur B. Smith, H. G. Hart, James S. Wheeler and Welsey F. Sinnickson are interested in the construction of an electric railway to connect Salem and Pennsgrove, N. J.

Pennsylvania—Lehigh Valley Transit Co.—Plans are being prepared by this company for laying a second track along Broad St., West Bethlehem, Penn. Thomas Gibson, Allentown, is Pur. Agt.

✚Pennsylvania—Schuylkill Electric Ry.—This company has awarded a contract to the TREXLER CONTRACTING CO., Reading, for the construction of its line over Broad Mountain. The proposed line will connect Pottsville, Frackville and Shenandoah, Penn. Noted June 24.

Pennsylvania—Wilkes-Barre Ry.—The City Council of Wilkes-Barre, Penn., has granted a franchise to this company to construct an electric railway on East North St. from North Main St. to North Pennsylvania Ave. Thomas A. Wright, Wilkes-Barre, is Vice-Pres., Gen. Mgr. and Pur. Agt.

Maryland—Idlewylde Park Ry.—This company has been granted a franchise to construct an electric railway on Regester Ave. from York Rd. to Idlewylde Park, Baltimore. Noted June 24.

Virginia—Virginia Ry. & Power Co.—Plans are being prepared by this company for double-tracking its line on 14th St. from Mayo Bridge to Cary St., Richmond. C. B. Buchanan, Richmond, is Gen. Mgr.

West Virginia—Southern Ry.—This company will double track a section of its Washington Atlantic line. B. Herman, Washington, D. C., is Ch. Engr.

North Carolina—Goldsboro Electric Ry.—Plans are being prepared by this company for the construction of new track in Goldsboro, N. C. E. L. Gentir, Goldsboro, is Secy. and Gen. Mgr.

Florida—The construction of an electric railway in Clearwater, Fla., and vicinity is contemplated by E. W. Parker, Tampa, and associates.

Florida—Work will soon be started on the construction of the proposed electric railway from Brooksville to St. Petersburg, Fla. James Murphy, St. Petersburg, is interested.

Tennessee—The citizens of Alexandria, Tenn., will hold an election to vote on the question of issuing $150,000 in bonds as their contribution toward the construction of an electric railway through DeKalb and Wilson Counties.

Kentucky—Ohio Valley Electric Ry.—Plans are being considered by this company for the construction of an electric railway from Ashland to Russell, Ky.

Ohio—Cleveland Ry.—This company will extend its line on Buckeye Rd. from 116th to 130th St. and its line on Woodland Ave. from 122nd to 130th St., Cleveland. George L. Radcliffe, Cleveland, is Gen. Mgr.

Michigan—Detroit United Ry.—This company plans to start work soon on the extension of its lines into the Fourth Ward, Detroit, Mich. F. W. Brooks, Detroit, is Gen. Mgr.

Michigan—Kalamazoo-Grand Rapids Interurban Ry.—Preliminary arrangements are being made by this company to start work soon on the construction of its proposed railway from Owasso to Bay City, Mich.

Illinois—La Salle County Electric R.R.—This company has submitted plans to the Public Utilities Commission of Illinois for the construction of its proposed electric railway which will connect Ottawa and Mendota, Ill.

Iowa—Minneapolis & St. Louis R.R.—This company plans an expenditure of $100,000 for the improvement of its yards at Marshalltown, Iowa. R. G. Kenly, Minneapolis, Minn., is Ch. Engr.

Iowa—Ottumwa Ry. & Light Co.—This company contemplates the extension of its Court Hill line in Ottumwa, Iowa. Charles E. Fahrney, Ottumwa, is Gen. Mgr.

Kansas—Arkansas Valley Interurban Ry.—This company is reported to be making preliminary arrangements for the extension of its line from Wichita to Salina, Kan. Charles D. Bell, Wichita, is Supt. Noted June 17.

Texas—According to press reports Charles H. Doak, O'Donnell, Tex., is interested in the construction of a railway from Brownfield to Lubbock to connect with the Atchison, Topeka & Santa Fé Ry.

Texas—Northern Texas Traction Co.—This company has been granted a franchise to extend its Summit Ave. line in Ft. Worth. G. H. Clifford is Vice-Pres. and Gen. Mgr.

Texas—Northern Texas Traction Co.—Plans are being considered by this company for the extension of its electric railway on Folsom Ave. and Gordon St., Ft. Worth, Tex. George H. Clifford, Ft. Worth, is Vice-Pres. and Gen. Mgr.

Oklahoma—According to press reports arrangements are being made for the construction of an electric interurban railway to connect Joplin, Mo., and Miami, Tulsa and Collinsville, Okla. J. R. Eldridge and A. G. Ritz, Oklahoma, are interested.

Idaho—Lewiston-Clarkston Transit Co.—Preliminary arrangements are being made by this company for the extension of its lines in Lewiston and Clarkston, Idaho.

California—The Board of Supervising Engineers of San Jose, Calif., will receive bids until Sept. 7 for a franchise to construct an electric railway on Alum Rock Ave.

California—Peninsular Ry.—This company plans to start work soon on the reconstruction of its electric railway from San Jose to Linda Vista, Calif. F. E. Chapin, San Jose, is Gen. Mgr. and Pur. Agt.

California—Tidewater Southern Ry.—Preliminary arrangements are being made by this company for the extension of its line from Modesto through Ceres to Turlock, Calif. J. H. Wallace, Stockton, is Ch. Engr. Noted July 1.

LIGHT, HEAT AND POWER

Westfield, Mass.—Bonds for $25,000 have been voted. The proceeds will be used for the improvement of its electric-light plant and system.

Syracuse, N. Y.—The Globe Malleable Iron & Steel Co. is having plans prepared for the construction of a power plant to be built in connection with its plant.

Avis, Penn.—The Council contemplates the installation of a new street-lighting system.

✚New Orleans, La.—The Board of Port Commissioners has awarded the contract for installing the steam piping in the cotton warehouses, now being constructed, to H. M. MOODY, New Orleans.

Nashville, Tenn.—Plans are being prepared for the installation of a new heating plant in St. Thomas Hospital.

North Chattanooga, Tenn.—Plans are being considered for the installation of a street-lighting system.

✚Soddy, Tenn.—The Richmond Hosiery Mills has awarded the contract for the construction of a power plant in connection with its establishment to the MARK K. WILSON CO., Chattanooga.

Ft. Thomas, Ky.—Plans are being considered by the Highland Film Corporation for the construction of a power plant to cost $30,000.

Smithland, Ky.—J. W. Watters and V. D. Pressnell are interested in the organization of a company which proposes to install an electric-light plant in Smithland.

West Park, Ohio—Bids will be received by W. J. Fetherstone, Clk., Bd. of Education, until noon, Aug. 20, for the installation of a heating system in the Settlement School.

Sparta, Mich.—The citizens have voted to issue $12,000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant.

Brookville, Ind.—The Brookville Electric Co. has applied to the Public Utilities Commission for permission to issue $10,000 in bonds, the proceeds of which will be used for the improvement of its power plant.

Milwaukee, Wis.—The Common Council has received the report of Vaughan, Meyer & Sweet, Consult. Engr., on the survey of the street lighting system of Milwaukee, which recommends an expenditure of $1,279,646 in equipment, transmission lines, etc., for an 8500-lamp system. F. G. Simmons is Comr. of Pub. Wks.

Rippey, Iowa—The construction of a municipal electric-light plant is under consideration.

Ellendale, Minn.—Plans are being considered for the installation of an electric-lighting system.

Hardwick, Minn.—Bonds for $5000 have been voted, the proceeds of which will be used for remodeling the municipal electric-light plant.

Rochester, Minn.—According to press reports bids will soon be received for the construction of the proposed municipal electric-light plant. The estimated cost is $110,000.

Netawaka, Kan.—At a recent election bonds for $10,000 were voted. The proceeds will be used for the installation of an electric-light plant. Noted July 8.

Republic, Kan.—Bonds for $6500 have been voted. The proceeds will be used for the installation of an electric-lighting system.

Seward, Neb.—The City Council contemplates an expenditure of $12,000 for the reconstruction of the electric-light plant which was recently destroyed by fire.

Milnor, N. D.—The Council has granted a franchise to D. L. Vail and associates for the construction of an electric-light plant in Milnor.

Galveston, Tex.—The Galveston Gas Co. contemplates an expenditure of $100,000 for the extension of its gas mains and the improvement of its system. F. M. Lege, Jr. is Gen. Mgr.

Holland, Tex.—The City Council has decided to install an electric-lighting system.

Lockhart, Tex.—The Citizens Water Works, Electric Light & Ice Co. has been organized for the purpose of constructing an electric-light plant at Lockhart. E. B. Coopwood is interested.

Royse City, Tex.—The Royse City Ice & Electric Co. has been organized with a capital of $16,000 for the purpose of constructing an electric light plant and ice factory. The incorporators are J. T. Murphy, A. F. Davis and E. C. Murphy.

Strawn, Tex.—The Texas & Pacific Co. plans to lay pipe lines to a number of towns from the natural gas well near Strawn which it recently purchased.

Jones, Okla.—According to press reports an election will soon be held to vote on the question of issuing bonds for the construction of an electric-light plant.

Marshall, Okla.—At a recent election the citizens voted in favor of a bond issue of $25,000. The proceeds will be used for the construction of an electric light plant and a water system.

✚Salt Lake City, Utah—The Caribou Gold Mines Co. has awarded the contract to R. S. LUND, Salt Lake City, for the construction of a hydro-electric plant on Eagle Creek.

Quincy, Calif.—The Board of Supervisors has granted permission to the Great Western Power Co. to erect a transmission line from the Nevis Dam in Big Meadows to the Engels Copper Mine in Lights Cañon, about 35 miles.

Harriston, Ont.—The installation of a hydro-electric system is under consideration.

Milverton, Ont.—The citizens recently voted to install a hydro-electric system.

BRIDGES

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 10, by the Metropolitan Park Commissioners for constructing a concrete bridge at Furnace Brook Parkway, Quincy. John R. Rablin, 20 Beacon St., is Engr.

✚Concord, Mass.—The contract for constructing a bridge across Winnisquam Lake has been awarded to the UNITED CONSTRUCTION CO., Albany, N. Y., at $46,222. Other bids were: Berlin Construction Co., $54,000; Bay State Dredge Co., $53,600; Boston Bridge Co., $47,191.

Lawrence, Mass.—(Official)—Bids will be received until 9:30 a.m., Aug. 16, by the Commissioners of Essex County for rebuilding the Loring St. bridge over the Shawsheen River at the North Andover line.

Worcester, Mass.—The Samuel H. Pitcher Co., Engr., Worcester, Mass., which has been engaged by the city to prepare plans and supervise the construction of the Lake Quinsigamond Bridge, has announced that plans will not be completed before Oct. 1 and bids will probably be asked about one month later. Noted Apr. 29 and July 22.

Woonsocket, R. I.—(Official)—Bids will be received until 7:45 p.m., Aug. 9, by the Board of Aldermen for constructing two reinforced-concrete bridges on Clinton St. Noted June 17.

Hartford, Conn.—Bids will be received until 2 p.m., Aug. 16, by the State Highway Commissioner for the construction of a 35-ft. reinforced-concrete girded bridge over the Blackledge River.

Hartford, Conn.—Bids will be received until 11 a.m., Aug. 10, by the Board of Contract for constructing a concrete bridge with stone facings across Park River, at an estimated cost of $19,000.

★Westport, Conn.—(Official)—Bids will be received by the State Highway Commissioner, Room 27, Capitol Bldg., Hartford, until 2 p.m., Aug. 10, for the construction of a highway bridge over the Saugatuck River at State St., Westport. The estimated cost is $125,000. Noted May 27 and June 10.

Checktowga, N. Y.—(Forks post office)—(Official)—The Delaware, Lackawanna & Western R.R. will build a viaduct at Harlem Ave., at an estimated cost of $400,000. Noted July 29.

Trenton, N. J.—Bids will be received until 2:30 p.m., Aug. 10, by the Board of Chosen Freeholders of Mercer County for the construction of a reinforced-concrete arch over Sanhican Creek at Willow St. Theodore Tobish is County Engr.

Harrisburg, Penn.—It is reported that bids will be received until Aug. 11 by the Commissioners of Dauphin County for rebuilding the concrete bridge over the tracks of the Philadelphia & Reading Ry. at 19th St. Henry W. Gough is County Controller. Noted July 8.

Mercer, Penn.—(Official)—Bids will be received until noon, Aug. 10, by the Commissioners of Mercer County for removing the present plank floor, cleaning and painting the steelwork, and constructing concrete floor on the roadway of the Greenman Bridge, New Hamburg, and the Saw Mill Run Bridge, Stoneboro. Lewis E. Burnside, Grove City, is County Engr. H. C. Comstock is Clk. of Comrs.

Athens, Ga.—(Official)—Bids will be received until Aug. 17 by Tate Wright, Clk., Athens, for new abutments and raising existing piers, containing 21 cu.yd. rubble masonry and 58.6 cu.yd. concrete, two steel spans of 73 ft. each, and one steel span of 105 ft.

Springfield, Ga.—(Official)—Bids will be received until 2 p.m., Sept. 6, by W. H. Cone Ordmay, for the construction of a steel bridge across the Ogeechee River between Effingham and Bulloch Counties. The estimated cost is $4500.

Cocoa, Fla.—C. M. Rogers, Daytona, has been retained to prepare plans for the construction of a concrete bridge 1⅛ miles long across the Indian River.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Aug. 18, by the Board of Commissioners of Cuyahoga County for steel deck bridge repairs, Report No. 3553. E. G. Krause is Clk. of Comrs. W. A. Stincomb is County Surv.

✚Mansfield, Ohio—The contract for constructing the Orange St. bridge has been awarded to the OHIO CONCRETE SUPPLY CO., Fremont, at $13,333. Noted July 22.

Marietta, Ohio—Bids will be received until 1 p.m., Aug. 17, by the Board of Commissioners of Washington County for the construction of a concrete bridge over Little Hocking Creek near Dunbar, Fairfield County. W. B. Alexander is County Audr.

Steubenville, Ohio—Bids will be received until Aug. 20 by the Board of Commissioners of Jefferson County for the construction of Bridge No. 8 in Smithfield Township, known as the Harpersville Bridge, and for repairing the bridge at the east end of Dillonvale. John L. Means is County Audr.

Ft. Wayne, Ind.—Bids will be received until 10 a.m., Aug. 9, by William Johnson, Audr. of Allen County, for the construction of concrete culverts and the repair of bridges.

Dixon, Ill.—(Official)—Bids will be received until 8 a.m., Aug. 7, by L. B. Neighbour, County Supt. of Highways of Lee County, for reflooring the Grand Detour Bridge between Nachusa Township, Lee County, and Grand Detour Township, Ogle County. The estimated cost is $7900.

Green Bay, Wis.—(Official)—Bids will be received until 10 a.m., Aug. 30, by the Committee of Streets and Bridges for the construction of a Strauss bascule bridge over the East River at Main St. and a swing bridge. The estimated cost is $55,000. A. Braun is City Engr. Noted Mar. 4 and July 22.

✚Adel, Iowa—The contract for the construction of the Brumfield Bridge has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, at $4375.

Audubon, Iowa—Bids will be received until 1 p.m., Aug. 9, by the Board of Supervisors of Audubon County for the construction of five concrete culverts and two bulkheads. C. D. Forsbeck is County Engr.

✚Dubuque, Iowa—The Board of Supervisors of Dubuque County has awarded the contract for the construction of 75 concrete bridges and culverts in the county to PAUL N. KINGSLEY, Strawberry Point, at $34,446. Noted July 15.

Ft. Madison, Iowa—The Board of Supervisors of Lee County has rejected all bids for the construction of the Santa Fe Ave. Bridge over Dry Creek, and has decided to have the work done under county supervision. The lowest bid received was $8215.

Richfield, Kan.—At a recent election the citizens voted in favor of issuing $8000 in bonds, the proceeds of which will be used for constructing a bridge over the Cimarron River near here.

Crete, Neb.—According to press reports bids will soon be received for the construction of a 290-ft. steel bridge, the estimated cost of which is $5000.

✚Williston, S. D.—The Board of Commissioners of Williams County has awarded the contract for county bridge construction for one year to M. A. ADAMS & CO., Minneapolis, Minn. Noted July 8.

✚Hardin, Mont.—(Official)—The County Clerk has awarded the contracts for the construction of three bridges, one over Little Big Horn River on the Sarpy Rd. and one over the same stream near Wyola to the SECURITY BRIDGE CO., Billings, at $27,622 and $8450 respectively; bridge over Big Horn River, about 1½ miles northeast of Hardin to J. STOUT, Sheridan, Wyo., at $3798. Noted June 19 and July 15.

Eureka Springs, Ark.—It is reported that the Commissioners of Carroll County contemplate the construction of a new bridge across the White River. The estimated cost is $20,000.

Dallas, Tex.—(Official)—Plans for the new Commerce St. Bridge over the Trinity River will not be ready for bids for two or three months. The estimated cost is $135,000. J. F. Witt is County Engr. Noted July 1 and 8.

Palestine, Tex.—Press reports state that the International & Great Northern Ry. Co. plans to construct a steel viaduct from Spring St. into Reagan Park, at an estimated cost of $7000.

Lehigh, Okla.—Bids will be received until Aug. 14 for constructing seven steel bridges in Coal County. Richard Bunch is County Clk.

✚Tecumseh, Okla.—(Official)—The Board of Commissioners of Pottawatomie County has awarded the contract for the construction of a bridge to the KANSAS CITY BRIDGE CO., Kansas City, Mo., at $5570. Other bidders were: Missouri Bridge & Iron Co., $5872; Vincennes Bridge Co., $5741; Illinois Steel Bridge Co., $5764; Western Bridge Co. (suspension bridge), $4200. B. B. Wyatt is Deputy County Clk.

Tulsa, Okla.—(Official)—Bids will be received until 10 a.m., Aug. 26, by the Board of Commissioners of Tulsa County for the construction of a reinforced-concrete bridge over the Arkansas River. It will consist of 18 arch spans, each 78 ft. between piers. The bridge will have a 30-ft. roadway and two 4-ft. sidewalks. Harrington, Howard & Ash, Kansas City, Mo., is Consult. Engr. Noted July 22 and 29.

✚Seattle, Wash.—(Official)—The contract for the construction of the Duwamish River Bridge has been awarded to the MANHATTAN CONTRACTING CO., Central Bldg., Seattle, at $26,594. Other bidders were: Albien Engineering Co., Seattle, $29,972; Weymouth Construction Co., Seattle, $28,695; Beers Building Co., Portland, $28,888; H. S. Wright, Everett, $32,179; Gerrick & Gerrick, Seattle, $34,993. A. P. Denton is County Engr. Noted July 8.

✚Tacoma, Wash.—(Official)—The contract for the construction of a wooden bridge across the gulch on 34th St. has been awarded to GRAFF & SHELDON, Tacoma, at $10,894. Other bidders were: Batchelor Bros., $12,250; A. Redstrom, $11,758; P. Mauson, $13,495; McHugh Construction Co., $11,709. Noted June 10 and July 15.

Walla Walla, Wash.—G. Cookerly, County Engr., is preparing plans for the construction of a steel bridge over the Walla Walla River at Swegle Crossing. The estimated cost of the work is $18,000.

✚Eugene, Ore.—The contract for the construction of the Coast Fork Bridge between Eugene and Pleasant Hill, has been awarded to the PORTLAND BRIDGE CO., Portland, at $9540. Noted June 3.

Baird, Calif.—The Ross Construction Co., Sacramento, at $28,235, submitted the lowest bid for the construction of a reinforced-concrete bridge about 395 ft long, across the Pit River.

Dunsmuir, Calif.—The lowest bid submitted for the construction of a reinforced-concrete bridge about 532 ft. long, with one arch 180 ft. clear span, and two arches 114 ft. clear span, across the Sacramento River near Dunsmuir, was that of the Pacific Coast Construction Co., Fresno, at $26,922.

Placerville, Calif.—The Board of Supervisors of Eldorado County will soon receive bids for the construction of a steel and concrete bridge across the American River at Coloma. Plans have been prepared by A. V. Saph, San Francisco.

Redding, Calif.—Bids will be received by the Board of Supervisors of Shasta County until Aug. 21 for the construction of a wood and steel bridge across the Sacramento River at Kennett, the estimated cost of which is $20,000.

Santa Rosa, Calif.—Bids will be received until Aug. 12 by the Board of Supervisors of Sonoma County for the construction of two reinforced-concrete bridges, one on the Alexander Valley Rd., and the other on the Petaluma Rd. W. W. Felt, Jr., is County Clk.

✚Santa Barbara, Calif.—MUNOZ & MUNOZ, Central Bldg., Los Angeles, at $18,973, has been awarded the contract for the construction of a reinforced-concrete bridge.

✚Shawenegan Falls, Que.—The Municipal Council has awarded the contract for the construction of a bridge over the Shawenegan River to B. J. TREPANIER, 24 Niverville St., Three Rivers. A sub-contract will be awarded for the steel superstructure. The estimated cost of the structure is $15,000.

Swan River, Man.—A bylaw has been passed authorizing the issue of $22,000 in bonds to be used for the construction of several bridges. Joseph Armstrong is Municipal Secy.

✚Vancouver, B. C.—The City Council has awarded the contract for repairs to the Connaught Bridge to W. GREENLESS, 407 Cordova St., W., Vancouver, at $7491. All previous contracts rescinded. Noted June 24 and July 8.

WATER SUPPLY—IRRIGATION

Anson, Maine—At a recent election the citizens voted in favor of installing a water system. The estimated cost is $120,000. Noted Feb. 4.

Dalton, Mass.—Press reports state that the Dalton Fire District plans to lay between 7000 and 8000 ft. of 4- and 6-in. water pipe.

New Britain, Conn.—The Water Board will purchase about 3000-ft. of 6-in. water pipe.

★Windsor, Conn.—(Official)—Bids will be received until 2 p.m., Aug. 20, by the Board of Commissioners of the Windsor Fire District for the construction of a water system.

✚Albany, N. Y.—The Bureau of Water Supply has awarded the contract for furnishing c.-i. pipe to the WARREN FOUNDRY & MACHINE CO., New York, N. Y., at $23.50 per ton.

✚Binghamton, N. Y.—The Board of Water Commissioners has awarded the contract for the construction of a reservoir on South Mountain to BARILLY & INGERSOLL at $20,032. Other bidders were: Frank Stento, $42,598; H. R. Porterfield, $21,700; H. B. Sproul, $29,203; W. H. Genegan, $23,869; J. F. Leary Co., $31,165; J. W. Gummo, $33,768; Williams & Richardson, $33,503. Noted July 8.

✚Hilton, N. Y.—(Official)—The following contracts have been awarded for the construction of a water system: Pipe and specials, UNITED STATES CAST IRON PIPE & FOUNDRY CO.; valves and hydrants, LUDLOW VALVE CO.; elevated water tank, CHICAGO BRIDGE & IRON WORKS; general contract, M. APPLEGATE & SON, Bradford, Penn. H. C. Kittredge, Rochester, is Engr. Noted July 8.

Keansburg, N. J.—The Keansburg Water Co. plans to extend its system throughout Keansburg and the vicinity.

Newark, N. J.—The New Jersey Water Supply Commission has been denied the application by the city for the exclusive use of the waters of the Wanaque River as a water supply. Noted Apr. 29.

Perth Amboy, N. J.—The Board of Water Commissioners plans to extend the new water main from Ernston Hill to the Raritan River. Noted June 17.

✚Clayton, Del.—The contract for the construction of water and sewer systems and a disposal plant has been awarded to the AMBLER-DAVIS CO., 1016 Harrison Bldg., Philadelphia, Penn., at $18,284. Herbert W. Hatton, Equitable Bldg., Wilmington, Del., is Engr. Noted July 8.

✚Baltimore, Md.—The Board of Awards has awarded the contract for furnishing and erecting a 20,000,000-gal. centrifugal pump for the Eastern Pumping Station to the WESTINGHOUSE ELECTRIC & MACHINE CO., Pittsburgh, Penn., at $12,538. Noted June 24 and July 8.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $125,000 in bonds. The proceeds will be used for the installation of a water system, making extensions to the sewer system and for paving. W. L. Penick is Mayor. Noted Feb. 11.

Keyser, W. Va.—An election will be held Aug. 10 to vote on the question of issuing $35,000 in bonds. Part of the proceeds will be used for the extension of the water system.

Atlanta, Ga.—An election will soon be held to vote on the question of issuing $750,000 in bonds. The proceeds will be used for the construction of a water system.

Baconton, Ga.—The city will hold an election Aug. 19 to vote on the question of issuing $12,000 in bonds. Part of the proceeds will be used for the construction of a water system.

Dunedin, Fla.—An election will be held Sept. 4 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a water system.

Ocala, Fla.—Plans are being prepared by Twombly & Henney, Engr., 55 Liberty St., New York, N. Y., for the improvement of the water and sewer system. Bonds for $155,000 have been sold for this purpose. Noted June 24 and July 15.

Houma, La.—Calvin Wurzlow, Mayor, will soon call an election to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a purification plant.

Madisonville, Tenn.—The city plans the construction of a water system. W. H. McCroskey, Mayor, is interested.

✚Covington, Ky.—The contract for pipe trenching and back filling for 10,950-ft. of 24-in. water mains has been awarded to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Chicago, Ill., at $92,000. Noted July 15.

✚Cincinnati, Ohio—(Official)—The contract for laying water mains in connection with the high pressure fire service has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $13,555. Other bidders were: M. J. McCarthy, $14,427; T. P. Strach, $16,621; H. V. Conneley, $17,252; M. F. Quill, $18,047. J. A. Heller is Supt. of Water Works. Noted July 15.

Marion, Ohio—The Marion Water Co. has been granted permission to issue $12,500 in bonds. The proceeds will be used for the extension of the water mains.

South Newburg, Ohio—(Newburg post office)—Bids will be received until noon, Aug. 14, by H. H. Bohning, Clk., for the construction of water mains in Windfall and Broadway Ave. Ralph Hecker, Cleveland, is Engr. Noted July 15.

Miller, Ind.—An election will be held Aug. 12 to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the construction of a water system. W. J. Holton, Gary, is Engr. Noted July 22.

Kenosha, Wis.—The Board of Water Commissioners has awarded the contract for constructing 10,000-ft. of 42-in. c.-i. water intake main, a submerged intake crib and a 24-in. main to GEORGE A. GREEN, Green Bay. B. C. Brennan is City Engr. Noted July 15 and June 24.

Oshkosh, Wis.—Henry A. Allen, Consult. Engr., Chicago, Ill., has been retained by the city to prepare plans and supervise the construction of the new filtration plant. Noted Feb. 18.

Charlton, Iowa—It is reported that the contract for the construction of a water system will soon be awarded. The estimated cost is $80,000. M. G. Hall, Centerville, is Engr. Noted Oct. 1 and July 1.

✚Council Bluffs, Iowa—The contract for the installation of an 8,000,000-gal. triple expansion pump for the water system has been awarded to the MERKLE-HINES MACHINE Co., Kansas City, Mo.

✚Grinnell, Iowa—The contract for making extensions to the water system has been awarded to BASH & JANES, Joplin, Mo., at $9736. Charles P. Chase, Clinton, is Engr. Noted July 8.

✚Keota, Iowa—The contract for the construction of a water system has been awarded to BASH & JANES, Joplin, Mo. Charles P. Chase, Clinton, is Engr. Noted July 8 and 15.

Broken Bow, Neb.—The City Council has rejected all bids received July 3 for the construction of a pumping plant for the water system and an electric-light plant. They will advertise for new bids. Charles F. Sturtevant, Holdredge, is Engr. Noted June 10 and 24.

Spearville, Kan.—At a recent election the citizens voted to issue $25,000 in bonds. The proceeds will be used for the construction of a water system.

✚Canova, S. D.—The contract for the construction of a water system has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa. Bonds for $9500 have been sold for this purpose. Noted June 3 and July 1.

✚Sioux Falls, S. D.—(Official)—Contracts have been awarded to the BEISCH SULZER BROS. DIESEL ENGINE CO., St. Louis, Mo., at $33,955, for oil engines, pumps and generators; CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $12,190, for the construction of a 350,000 gal. elevated tank; FANEBUST BROS., Sioux Falls, at $16,181, for the construction of a 1,200,000-gal. reinforced-concrete reservoir. Noted July 15.

Hamilton, Mont.—The construction of a municipal water system and a distributing system is being considered by the City Council.

✚Wibaux, Mont.—(Official)—The contract for the construction of a water system has been awarded to the HOGGART CONSTRUCTION CO., Fargo, N. D., at $24,500. C. H. Green, Spokane, Wash., is Consult. Engr. Noted July 1 and 22.

St. Louis, Mo.—Bids will be received by the Board of Public Service until Aug. 13 for the reconstruction of the Compton Hill Reservoir. The estimated cost is $400,000. E. E. Wall is Water Comr. Noted July 8.

Beaumont, Tex.—Bids will be received until 10 a.m., Aug. 7, by J. G. Sutten, City Secy., for the construction of a 36-in. c.-i. pipe across the Neches River, canal intake and other improvements in connection with the canal extension for the water-works. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., is Engr. Noted July 1 and 29.

Floresville, Tex.—The city will purchase 5000-ft. of c.-i. pipe for the purpose of extending the water mains to the gin and oil mill section.

Lockhart, Tex.—Bids will soon be received by the Citizens Water Works, Electric-Light & Ice Co., for the construction of a water system and electric-light plant. The estimated cost is $45,000. W. B. Swearingen is Pres.

Mission, Tex.—A franchise has been granted to the Mission Ice Light & Water Co. for the construction of a water works plant. J. A. Sadler is Pres.

Grove, Okla.—An election will be held Aug. 9 to vote on the question of issuing $10,000 in bonds. Part of the proceeds will be used for extending the water system.

Marshall, Okla.—At a recent election the citizens voted to issue $25,000 in bonds, the proceeds of which will be used for the construction of a water system and an electric-light plant.

Tulsa, Okla.—A proposition has been submitted to the City Commissioners by E. M. Kerling, Tulsa, D. A. Coulter and J. B. Marvin, Franfort, Ind., for the construction of a water system.

Rogerson, Idaho—An application has been filed with the Public Utilities Commission, Boise, by W. R. McMillan and John McRae for the installation of a water system. The estimated cost is $15,000.

St. Maries, Idaho—(Official)—At a recent election the citizens voted to issue $37,000 in bonds. The proceeds will be used for the improving of the water system. Charles R. Schulte is Clk. Noted July 22.

Salt Lake City, Utah—Plans are being prepared for the construction of a new dam for the Hatchtown irrigation project. The estimated cost is $100,000. G. Stirling and J. L. Reed are Engrs.

Vernal, Utah—It is reported that the city has decided not to extend the water system at the present time. The work will probably be done some time next year. George A. Davis is City Recdr. Noted July 15.

Aberdeen, Wash.—An election will soon be held to vote on the question of issuing $500,000 in bonds. The proceeds will be used for the construction of the Wynoochee water system. Noted June 10.

Kirkland, Wash.—The City Council has rejected all bids for the construction of a water system in District No. 22. It has been decided to do the work under the direction of the City Engineer.

Prosser, Wash.—The Benton County Commissioners have approved the plans of the Horse Heaven Land Owner's Association for the construction of an irrigation district and will hold an election Aug. 7. The district will comprise about 500,000 acres lying in Benton, Kakima and Klickitat Counties. About $200,000 has already been expended in preliminary engineering and surveying work conducted by the Klickitat Irrigation Co. C. H. Hinman, North Yakima, Ira W. Prosser, Prosser, and John Sumner, Patterson, are Dir.

Seattle, Wash.—The City Council has instructed the Board of Public Works to advertise for bids for laying water mains in East 54th St. and Bradner Pl. L. B. Young is Chn. of Bd.

Seattle, Wash.—The citizens plan to issue $3,000,000 in bonds. The proceeds will be used for the extension of the water system.

✚Linn, Ore.—The contract for the construction of waterworks in West Linn has been awarded to the OREGON ENGINEERING & CONSTRUCTION CO., Oregon City.

Salem, Ore.—The Public Utilities Commission has granted permission to the Rouge River Public Service Corporation to construct an irrigation system to irrigate 12,640 acres of land in the vicinity of Grants Pass. Estimated cost, $135,000.

✚Oakdale, Calif.—The Oakdale Irrigation District has awarded the contract for extensions to the irrigation system to SHAW & BATCHER, Sacramento. The estimated cost is $100,000. Noted Apr. 29 and June 17.

Oceanside, Calif.—An election will be held Aug. 16 to vote on the question of issuing $20,000 in bonds. Part of the proceeds will be used for improving the municipal-water system.

Stockton, Calif.—The Pacific Gas & Electric Co. will install water mains, including an 8-in. fire-protection main in California St. The estimated cost is $32,000.

✚Levis, Que.—The contract for the construction of a storage dam on the St. Maurice River has been awarded to JOSEPH GOSSELIN, at $1,300,000.

Montreal, Que.—It is reported that the Board of Control has decided to engage local engineers to prepare plans for the construction of a filtration plant to increase the daily capacity from 50,000 to 100,000 gal. instead of the New York engineers recently appointed. Noted July 15 and June 17.

Collingwood, Ont.—The Town Council will improve its water system. The estimated cost is $15,000. J. H. Duncan is Clk.

✚Guelph, Ont.—The contract for the construction of a pumping station in connection with the extension of the water system has been awarded to BRENNAN & HOLLINGWORTH, Hamilton, at $8600. Noted July 22.

✚Assiniboia, Sask.—The contract for furnishing the city with 500 ton of c.-i. pipe has been awarded to the CANADIAN PIPE CO., at about $19,000.

SEWERS

✚Boston, Mass.—Bids were received July 28 by the Metropolitan Water and Sewerage Board for the construction of (a) Section No. 105, (b) Section No. 106 of the high level sewer, South Metropolitan System in Needham and Wellesley from HUGH NAWN CONTRACTING CO., Roxbury, (a) $29,655 (awarded contract), (b) $27,912 (awarded contract); George M. Bryne, (a) $37,272, (b) $43,315; Coleman Bros., (a) $44,230, (b) $37,651; Michael Meehan, (a) $52,187, (b) $44,605; Henry Spinach Contracting Co., (a) $52,493, (b) $43,630; M. Russo & Son, (a) $54,162, (b) $53,047; Bruno & Petitti, (a) $58,385, (b) $61,685. Noted July 22.

Boston, Mass.—Bids will be received until noon, Aug. 6, by Edward F. Murphy, Comr. of Pub. Wks., for the construction of sewers and drains in Columbia Park, Favre St. and private land, Dorchester, Royal Rd., Dorchester and Hyde Park.

Huntington, Mass.—(Official)—Bids have been received for the construction of approximately 4000 ft. of 8-, 10-, 12- and 15-in. sewers from A. Williams & Co., Boston, $3599; James L. Bryner Boston, $3392; Way & Cellilli, Springfield, $3338; Hampden Contracting Co., Springfield, $3121; Cordner & Montague, Springfield, $2851; William Orlando, Belchertown, $2764; Frank D. O'Connor, Holyoke, $2636. James L. Tighe is Consult. Engr.

Marlboro, Mass.—The City Council contemplates the construction of sewers in various streets. The estimated cost is $20,000. Thomas H. O'Halloran is Mayor.

Norwood, Mass.—(Official)—The city will construct sewers, water-works, underground municipal light system and pave various streets. The estimated cost is $100,000. G. A. Smith is Engr.

Salem, Mass.—(Official)—The city will construct sewers in Cleveland Rd., Loring Ave. and connecting streets by day labor. The estimated cost is $7000 Noted July 29

Hockanum, Conn—Bids will be received until 8 pm., Aug. 12, by the Sewer Committee for the construction of approximately 9300 ft. of 12-, 10- and 8-in. sewers. C. Henry Olmsted is Engr.

★Albany, N. Y.—(Official)—Bids will be received by the Board of Contract and Supply until 3 p.m., Sept. 7, for the construction of sewage pumping stations. Isadore Wachman is Secy. of Bd.

Binghamton, N. Y.—Surveys are being made by the Engineering Bureau for the construction of a sewer system. Arthur La Roche is Asst. City Engr.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Aug. 17, by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Maspeth, Clark, Perrk and Maurice Ave. and in Rust and Grand St.

✚Yonkers, N. Y.—It is reported that the contract for the construction of house and storm sewers has been awarded to JOSEPH CIANCULLI & SON, Yonkers, at $14,700.

✚Camden, N. J.—The contract for the construction of sewers in Chelton Ave., Fairview and North Sixth St. has been awarded to F. A. WARD. Noted July 8.

✚Maywood, N. J.—(Official)—The contract for the construction of a sanitary sewer system has been awarded to MARTIN-MILLER & PIZZIMENTI, Caldwell, at $87,911. Other bids were: Frisco Construction Co., Newark, $94,131; Di Napolio & Toriella Construction Co., $96,458; E. C. Humphrey, $127,280. Noted July 8.

Newark, N. J.—Bids were received July 29 by the city for the construction of the Bound Brook and Frelinghuysen Ave. sewer from O'Gara & Maguire, Newark, $33,175; Averill Mathews Co., Montclair, $36,377; John W. Heller, Newark, $37,956; P. L. Braunwith, $38,164; Frisco Construction Co., Newark, $39,295; Harrison & Craig, Newark, $44,930; P. D'Anato, Newark, $53,194; Charles Ippolito, Montclair, $76,661. Noted July 22.

Pitman, N. J.—An election will soon be held to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Remington & Vosbury, Camden, is Engr. Noted June 10.

Pleasantville, N. J.—(Official)—Plans are being prepared by Remington & Vosbury, Engr., Camden, for the construction of a sewer system and a sewage-disposal plant. The estimated cost is $100,000.

Exter, Penn.—(Pittston post-office)—The lowest bid submitted for the construction of sewers in Penn, Lincoln and Grant St. was that of Joseph Banks, Wilkes-Barre, at $7000.

Franklin, Penn.—The Borough Council contemplates the construction of a sanitary sewer system.

Clayton, Del.—See item under "Water, Supply-Irrigation."

✚Baltimore, Md.—(Official)—The contract for the construction of Section No. 1 of the Jenkins Run Trunk Drain, Storm Water Contract No. 45 has been awarded to SLACK & SLACK, Baltimore, at $81,742. Other bids were. Whiting Turner Construction Co., $84,999; C. B. Clark & Co., $88,418; Ryan and Reilley, $90,069; Continental Contracting Co., $92,404; Janon Fisher, $93,434. Noted July 8.

✚Ocean City, Md.—The contract for the construction of a sewage pumping station, clarification tank, intercepting and branch sewers has been awarded to the BOYLE-LOHMULLER CONSTRUCTION CO., Baltimore, at $14,296. Noted July 15.

Harrisonburg, Va.—The city will construct an Imhoff sewage-disposal plant and filter beds. The estimated cost is $6000. J. H. Downing is Mayor.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $100,000 in bonds. Part of the proceeds will be used for the construction of sewers. Plans have been prepared by Anderson & Christie, Charlotte, N. C. W. I. Penick is Mayor.

Keyser, W. Va.—An election will be held Aug. 10 to vote on the question of issuing $35,000 in bonds. Part of the proceeds will be used for the construction sewers in bed of New Creek.

✚Clinton, N. C.—The contract for the construction of a sewer system has been awarded to C. C. JACOBS, Durham. Noted Apr. 1.

Chester, S. C.—The city has been instructed by the State Board of Health to take definite action by Sept. 12 toward the installation of a sanitary sewer system.

★Greenville, S. C.—(Official)—Bids will be received until 4 p.m., Aug. 10, by the city for the construction of sanitary sewers. C. P. Ballenger is City Engr. Noted Apr. 29.

Atlanta, Ga.—An election will be held to vote on the question of issuing $1,000,000 for the construction of sewers and sewage-disposal plants.

Dunedin, Fla.—An election will be held Sept. 4 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a sewer system and a sewage-disposal plant.

St. Petersburg, Fla.—(Official)—The city will not issue bonds for the construction of a sanitary sewer system, as was noted in the issue of July 22.

Florence, Ala.—The city contemplates the construction of approximately three miles of sanitary sewers. N. M. Striplin is Mayor.

Meriden, Miss.—At a recent election the citizens voted to issue $10,000 in bonds. The proceeds will be used for the construction of sanitary sewers. Noted July 8.

La Fayette, La.—The city contemplates the construction of a sewer system. The estimated cost is $100,000.

✚Cheviot, Ohio—(Cincinnati post office)—(Official)—Contracts for sewer construction have been awarded to JAMES McLAIN, Newport, Ky., for constructing a trunk drain in Powells Track and to A. BOERESON, Cincinnati, for constructing a trunk drain in the Schlenker and Reubel property. Noted July 22.

✚Cincinnati, Ohio—The contract for the construction of the Poague Ave. sewer has been awarded to RUNCK PROS., at $5701.

Cincinnati, Ohio—Bids will be received until noon, Aug. 11, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in McDowell and Strafer St. and in Columbia Ave.

✚Cincinnati, Ohio—The Board of Control has awarded contracts for sewer construction to JOHN B. McLANE, at $14,977, for constructing sewers in Clinton Springs and Glenmore St.; CONNOLLY CONSTRUCTION CO., at $4625, for constructing sewers in Carll Rd.; M. J. CONNOLLY, JR., at $5226, for constructing sewers in Kirby Rd. Noted July 15.

★Cleveland, Ohio—(Official)—Bids will be received by the Commissioner of Purchases and Supplies until noon, Aug. 18, for the construction of a concrete open channel outfall sewer, approximately 630 ft. long and a submerged outfall pipe line about 3600 ft. long.

Columbus, Ohio—Bids will be received until Aug. 17 by the Director of Public Service for the construction of sewers in various streets.

Port Clinton, Ohio—The City Council contemplates constructing an addition to the sewer system in the South Side. The estimated cost is $44,000.

Lafayette, Ind.—Preliminary plans are being prepared for the construction of storm and sanitary sewers. H. B. Obersch, Jr., is City Engr.

✚Markle, Ind.—(Official)—The contract for the construction of a sewer system has been awarded to THOMAS B. McGOVERN, Wabash, at $11,510. Other bids were: J. Hipskind, Wabash, $11,721; R. P. Nipp, Flora, Ill., $12,120; Keefer & Bailey, Huntington, $12,313; Martin Koch, Huntington, $12,570; T. B. House, Franklin, $12,693. Noted July 15.

Chrisman, Ill.—Plans are being prepared by George A. Fair for the construction of concrete sewers. The estimated cost is $9500. Frank McCuddy is City Clk. Noted July 29.

East St. Louis, Ill.—Plans are being prepared by E. F. Harper, City Engr., for the construction of the Bowman Ave. sewer from First to 16th St.

Green Bay, Wis.—Bids will be received until 10 a.m., Aug. 17, by the Committee on Sewers of the Common Council for the construction of a steel outlet for the terminus of the Cedar St. sewer to the Fox River.

Oshkosh, Wis.—Bids will be received until 2 p.m., Aug. 6, by the Board of Public Works for the construction of sewers in the Eighth Ward.

West Allis, Wis.—Bids will be received until noon, Aug. 9, by the Acting Board of Public Works for the construction of storm sewers in Mitchell St. from 51st St. to 63rd Ave.

✚Whitewater, Wis.—The contract for the construction of sewers has been awarded to A. M. LANIGON, Waukegan, Ill., at $23,900. Noted July 29.

✚Cherokee, Iowa—(Official)—The contract for the construction of approximately 3½ miles of sanitary sewers has been awarded to the MOORE-SEIG CONSTRUCTION CO., Waterloo, at $24,380. Other bids were: George M. King, Des Moines, $26,993; William C. Fraser, St. Paul, Minn., $25,398. Noted July 29.

Clinton, Iowa—It is reported that the City Council contemplates the construction of sewers in the Fourth Ward. The estimated cost is $80,000.

Spencer, Iowa—(Official)—Bids will be received until Aug. 6 by E. O'Keeffe, City Engr., for the construction of approximately 6000 ft. of 8-, 10- and 12-in. sewers.

Sandstone, Minn.—(Official)—All bids received July 26 for the construction of approximately 9025 ft. of 8- and 6-in. sewers have been rejected. New bids will be received until Aug. 23 by C. Rudisukle, Village Recdr. Noted July 22.

✚St. Paul, Minn.—(Official)—The contract for the construction of storm and sanitary sewers in various streets to be included in part of the Smelling-Como sewer system has been awarded to THOMSON BROS., St. Paul, at $236,000. Noted July 22.

Topeka, Kan.—Plans have been prepared and bids will soon be received by A. R. Young, City Engr., for the construction of sewers in District No. 45. Noted May 13.

✚Topeka, Kan.—The contract for the construction of the East Side sewer has been awarded to JAMES A. PRINGEL, at $125,834. Noted July 29.

Crofton, Neb.—The city contemplates the construction of a sewer system and a septic tank. The estimated cost is $8000. J. D. Clair Smith, Hartington, is Engr.

✚Omaha, Neb.—The contract for the construction of storm sewers from 36th Ave. to the junction connecting with the Everett Pl. sewer in Fontenelle Park has been awarded to JAMES JENSON, Omaha, at $39,646.

Omaha, Neb.—The State Legislature has authorized the City Council to issue bonds for $1,000,000. The bonds will be isued in five annual installments of $200,000 each. The proceeds will be used for the construction of a sewer system.

Wausa, Neb.—An election will be held Sept. 3 to vote on the question of isuing $20,000 in bonds. The proceeds will be used for the construction of a sewer system and a sewage-disposal plant. Noted June 24.

✚Wisner, Neb.—(Official)—The contract for the construction of a sewer system has been awarded to ARTHUR A. DABSON CO., Lincoln, at $14,510. Noted July 15.

Centerville, S. D.—At a recent election the citizens voted to issue $27,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted July 15.

Poplar Bluffs, Mo.—(Official)—Bids will be received until 7:30 p.m., Aug. 16, by H. H. Wilcox, City Clk., for the construction of sewers in Sanitary Sewer District No. 2. The estimated cost is $17,426. Edward C. Thomas is City Engr.

✚Springfield, Mo.—The contract has been awarded to PLUMNER-ADAMS CO., Springfield, at $9153, for the construction of sewers in District No. 22, Section No. 3.

St. Louis, Mo.—Bids will be received until noon, Aug. 6, by the Board of Public Service for the construction of the Florissant Ave. public sewer extensions, Sections Nos. 1 and 2.

Argenta, Ark.—Bids will be received until 10 a.m., Aug. 11, by the city for two 14,000-gal. sewerage pumps, two 60-hp. slow-speed motors and other equipment. J. P. Faucette is Mayor.

Amarillo, Tex.—The city contemplates constructing sewers estimated to cost $10,000. J. M. Beasley is Mayor.

Beeville, Tex.—Bids will be received until Aug. 20 by W. G. Gayle, City Clk., for extending the sewer system. Bartlett & Ranney, San Antonio, is Engr. Noted July 22.

✚Drumright, Okla.—The contract for the construction of lateral sewers has been awarded to the TOLBERT CONSTRUCTION CO., at $28,000. Noted Feb. 25.

Sand Springs, Okla.—(Official)—Bids will be received until Sept. 1 by A. F. Shultz, City Clk., for the construction of 1½ miles of sewers. The estimated cost is $4000. M. P. Lartimer is City Engr. Noted July 22.

Steamboat Springs, Colo.—Bids will be received until Aug. 9 by the Town Council for the construction of a sanitary sewer system. The estimated cost is $62,000. B. G. Bradley is Town Engr. Noted July 1.

Deming, N. M.—An election will be held to vote on the question of issuing bonds for $30,000, the proceeds of which will be used for the construction of septic tanks and for extending the sewer system.

Richfield, Utah—The city contemplates issuing bonds, the proceeds of which will be used for the construction of a sewer system.

Burns, Ore.—(Official)—At a recent election the citizens defeated the question of issuing bonds for $40,000, the proceeds of which was to have been used for the construction of a sewer system. Noted July 22.

Portland, Ore.—Bids were received by the City Council for the construction of the East Alder St. sewer from 135 ft. west of East Second St. to the east harbor line of the Willamette River from the Alexis Contracting Co., Portland, at $21,106, and Giebisch & Joplin, Portland, at $25,970.

✚Corning, Calif.—The contract has been awarded to A. C. HAMLIN, San José, at $15,381, for sewer construction.

✚Los Angeles, Calif.—The contract for the construction of sewers in Temple St. from Oxford Ave. to Kingsley Drive has been awarded to JOSEPH CHUTUK, at $39,116. Noted July 29.

Marysville, Calif.—An election will be held to vote on the question of issuing $18,000 in bonds. The proceeds will be used for the construction of sewers in the Ellis Lake District. Noted Apr. 8.

✚Sacramento, Calif.—The contract for the construction of Unit No. 4 of the trunk sewer in Montclair Ave. has been awarded to JAMES KENNEDY, Fargo, N. D., at $37,280.

✚Santa Barbara, Calif.—The contract for sewer construction has been awarded to EGGART & UKOVISIA, Los Angeles, at $20,717.

✚Stockton, Calif.—The contract for the construction of sanitary sewers in the McCloud addition has been awarded to A. TEICHERT & SON, Sacramento, at $6968.

London, Ont.—Bids will soon be received for the construction of sewers in Waterloo St. H. A. Brazier is Engr.

Stratford, Ont.—The city contemplates the construction of sewers in Front, Mile, High and Railway Ave. A. B. Manson is Engr.

Thorold, Ont.—Bids will soon be received for the construction of sewers in various streets. D. J. Munro is City Clk. Noted June 3.

Welland, Ont.—The Town Council will construct sewers in Seeley St. D. J. Black is Engr.

GARBAGE

New York, N. Y.—The following are the lowest bids submitted to J. T. Fetherston, Comr. of Street Cleaning, for the removal of snow and ice during the winter season of 1915-1916: Borough of Manhattan: Celestino De Marco, 239 East 17th St., 37c. per cu.yd.; Borough of Bronx: Thomas Cummins Contractor Co., 444 East 69th St., 30c. per cu.yd.; Borough of Brooklyn: Rosenthal Engineering & Contracting Co., 165 Hooper St., Brooklyn, 35.3c. per cu.yd.; Manhattan Borough, Dists. 1, 2 and 3: Snow Contracting Co., 1 Madison Ave., 43c. per cu.yd.; Brooklyn Borough, Dists. 1, 2, 3 and 4: Parsons & Langtry Co., 30 Church St., New York, lowest on Dist. 1, 34.7c. per cu.yd.; Rosenthal Engineering & Contracting Co., 165 Hooper St., Brooklyn, lowest on Dists. 2 and 3, 28c. and 31c. per cu.yd.; Thomas Callandrello, 425 Malbone St., only bidder on Dist. 4, at 34c. per cu.yd.

Fort Wayne, Ind.—The Board of Public Works contemplates the construction of a garbage incinerating plant, also the construction of collection sub-stations.

STREETS AND ROADS

✚Boston, Mass.—A contract for furnishing approximately 200,000 gal. of emulsified road oil has been awarded to the STANDARD OIL CO., at $0.0367 per gal.

✚Boston, Mass.—The contract for paving Birch St. from Penfield St. to Dudley Ave., West Roxbury, has been awarded to A. H. ARCHER, at $7223.

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 9, by the Commissioner of Public Works for paving Glendower Rd. from Kittredge to Poplar St., West Roxbury District.

Boston, Mass.—Bids will be received until Aug. 10 by the State Highway Commission for constructing 11,000 lin.ft. of road in Northampton. Arthur W. Dean, 15 Ashburton Pl., is Ch. Engr.

✚Boston, Mass.—The contract for constructing 4600 lin.ft. of state road in Andover has been awarded to D. J. SHEEHAN, Lynn, at $10,905. Noted July 22.

Northampton, Mass.—Bids will be received until noon, Aug. 10, by the State Highway Commission, Boston, for constructing 11,000 lin.ft. of state highway.

Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Comr., until 2 p.m., Aug. 16, for road work as follows: North Haven Township, about 4950 lin.ft. macadam on the Mt. Carmel-North Haven Rd.; Southington Township, about 6200 lin.ft. 2-in. bituminous macadam resurfacing on the Misery Brook Rd.; Waterford Township, about 5937 lin.ft. native stone macadam on the Hartford-New London Turnpike; Durham Township, about 4940 lin.ft. bituminous macadam resurfacing on the Middlefield Rd.; Killingly Township, about 2950 lin.ft. concrete, amiesite, warrenite or bituminous concrete resurfacting on Main St., Danielson.

✚Hartford, Conn.—Contracts for State Road work have been awarded by the State Highway Commissioner as follows: Plainfield Township, about 6875 lin.ft. gravel, to JOHN ARBORIA, 172 Congress St., New Haven, at $8000. Vernon Township, a section of bituminous native stone macadam on Vernon Ave., to A. D. BRIDGE'S SONS, INC., Hazardsville, at $4843. Roxbury Township, a section of graded road to JOHN DE MICHIEL & BRO., Torrington, at approximately $16,311. Killingworth Township, a section of gravel road to LOUIS LONGHI & BRO., Torrington, at $6000. Bridgeport City, a section of warrenite pavement to the WARREN BROS. CO., Boston, Mass., at $8529.

✚New Haven, Conn.—The contract for paving Exchange St. with sheet asphalt has been awarded to the C. W. BLAKESLEE SONS CO., New Haven, at $14,298.

✚**Albany, N. Y.**—The contract for improving Glendale and Highland Ave. has been awarded to GLEASON & DAVITT, at $17,507.

✚**Albany, N. Y.**—The contract for grading a portion of the eastern section of Beaver Park has been awarded to MARTIN MURRAY & CO., at $30,743.

✚**Albany, N. Y.**—The contract for improving Bancker, Mercer, Polster and Warren St. and Main, Park and Ryckmann Ave. has been awarded to GLEASON & DAVITT, Troy, at $95,818.

Buffalo, N. Y.—The Common Council has voted to pave Tifft St. with brick, at an estimated cost of $25,000.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 28 by L. H. Pounds, Borough Pres., for improving Skillman St. from Park to Myrtle Ave., Myrtle Ave. from Franklin to Nostrand Ave., Nostrand Ave. from Stockton St. to 75 ft. south of Willoughby Ave. and Vernon Ave. from Nostrand to Marcy Ave. as follows: Rosenthal Engineering Co., $26,446; Barber Asphalt Co., $26,519; Sicilian Asphalt Co., $25,203; Borough Asphalt Co., $24,059; McFarlane Contracting Co., $27,288. Noted July 22.

New York, N. Y.—(Borough of Brooklyn)—Bids will be received until 11 a.m., Aug. 11, by L. H. Pounds, Borough Pres., for improving Jamaica Ave. from Broadway to the borough line.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—Contracts have been awarded for improving portions of 38th St., 62nd St., West End Ave., and 95th St., 36th St. and Amsterdam Ave. to the ASPHALT CONSTRUCTION CO., 50 Church St. at $66,386, $17,923, $12,017 and $153,877 respectively. Noted July 8.

★**Scarsdale, N. Y.**—(Official)—Bids will be received until 8 p.m., Aug. 25, by the Board of Trustees for constructing the Popham Rd. John R. Ross is Clk.

✚**Yonkers, N. Y.**—The contract for regulating, grading and improving Fortfield Ave. has been awarded to JOHN O. WESTON, at $23,450.

Cranford, N. J.—Press reports state that the Township Committee plans to pave Springfield Ave. with macadam and construct concrete curbs and gutters.

✚**East Orange, N. J.**—(Official)—The contract for grading, curbing and paving Girard and Linden Ave. with telford pavement has been awarded to JOHN S. GEIGER'S SONS, Newark, N. J. Noted July 22.

Hackensack, N. J.—(Official)—Bids will be received until 1 p.m., Aug. 16, by the Board of Chosen Freeholders of Bergen County for repairing Oakland Ave. from Page's Corner to the Passaic County line.

✚**Haddonfield, N. J.**—A contract for resurfacing a number of street has been awarded to MANWARING & CUMMINGS, Philadelphia, at $16,700.

✚**Hoboken, N. J.**—(Official)—The contract for improving a portion of the concrete walks in Elysian Park has been awarded to the O'REILLY CONTRACTING CO., 90 Neptune Ave., Jersey City. Noted July 22.

✚**Hoboken, N. J.**—(Official)—The contract for grading and repaving portions of Third, Fourth, Fifth, Sixth, Jefferson, Adams, Hudson, River, and 14th St. and Willow Ave. has been awarded to the UVALDE ASPHALT PAVING CO., at $42,040. Noted July 22.

✚**Kearney, N. J.**—The contract for paving Stewart Ave. from Schuyler Ave. to Argyle Pl. has been awarded to VAN KEUREN & SON, at $17,183.

✚**Morristown, N. J.**—The Board of Freeholders has awarded contracts for the improvement of the Denville-Dover Rd., in two sections Denville-Rockaway Section, to the WELDON CONTRACTING CO., $21,181; Rockaway-Dover Section, to OSBORNE & MARSEILLIS CO., $31,993.

South Amboy, N. J.—Plans are being prepared by the City Engineer for paving Main St. from Broadway to Thompson St.

Trenton, N. J.—The Board of City Commissioners plans to improve Ellsworth Ave. by paving with bituminous concrete on a 5-in. concrete foundation.

Brackenridge, Penn.—At a recent election the citizens voted in favor of issuing $35,000 in bonds, the proceeds of which will be used for street paving.

Camp Hill, Penn.—Press reports state that the citizens voted in favor of issuing $30,000 in bonds, the proceeds of which will be used for paving Mark St.

Greensburg, Penn.—(Official)—All bids received July 23 for improving sections of the highway in Mt. Pleasant Township were rejected. New bids will be readvertised. Noted July 22.

Philadelphia, Penn.—(Official)—Bids will be received until Aug. 10 by the Department of Public Works for improving a number of streets.

★**Wilmington, Del.**—(Official)—Bids will be received until 4 p.m., Aug. 10, by the Board of Directors of the Street and Sewer Department for improving a number of streets. L. V. Christy is Secy.

Baltimore, Md.—The Paving Committee has voted to pave Hillen, Fayette Gold St. with sheet asphalt.

Clintonwood, Va.—The Commissioners of Dickinson County contemplate an expenditure of $48,000 for the construction of 30 miles of road.

Isle of Wight, Va.—The Commissioners of Isle of Wight County contemplate constructing 35 miles of road, at an estimated cost of $15,000.

✚★**Norfolk, Va.**—(Official)—A contract for paving certain streets has been awarded to LOUIS LAUSON, Norfolk, at $32,992. Other bids were: Atlantic Bitulithic Co., $40,112; F. J. McGuinn, $40,062; Continental Public Works Co., $35,128; Central Contracting Co., $35,127. Noted July 15.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for street improvements.

Piedmont, W Va.—Press reports state that an election will soon be held to vote on the question of issuing $36,000 in bonds, the proceeds of which will be used for improving streets.

Lillington, N. C.—An election will be held Aug. 7 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for constructing 20 miles of road in Harnett County.

Cartersville, Ga.—The date of holding an election has been postponed from July 17 to Aug. 14 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for street paving. Noted July 1.

Folkston, Ga.—The Commissioners of Charlton County contemplate constructing 20 miles of road, at an estimated cost of $20,000.

Apalachicola, Fla.—The Commissioners of Franklin County plan to construct approximately 25 miles of road.

Kissimmee, Fla.—An election will be held Aug. 7 to vote on the question of issuing $45,000 in bonds, the proceeds of which will be used for paving six streets.

✚**Sarasota, Fla.**—(Official)—Contracts have been awarded for paving portions of Palm St. to the SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., and Strawberry St. to the GEORGIA ENGINEERING CO., Augusta, Ga. Noted July 15.

New Orleans, La.—A. G. Thomas, New Orleans, at $6.95 per cu.yd. was the lowest bidder for constructing a highway from the Rigolets to Chef Menteur. Noted July 15.

Jasper, Tenn.—At a recent election the Commissioners of Marion County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for constructing a section of the Dixie Highway.

Linden, Tenn.—The Commissioners of Perry County contemplate constructing 100 miles of road, at an estimated cost of $100,000.

Hartford, Ky.—The Commissioners of Ohio County contemplate constructing three miles of macadam road. W. C. Blankenship is Clk.

Hazard, Ky.—An election will be held Aug. 11 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for constructing concrete sidewalks.

Paducah, Ky.—According to press reports the Commissioners of McCracken County will improve Glandville Rd.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 12, by Philip Fosdick, Dir. Pub. Ser., for improving Magnolia St. from Plum to Elm St. Noted July 15.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 12, by Philip Fosdick, Dir. Pub. Ser., for improving Wade St. Noted July 15.

Columbus, Ohio—Bids will be received until Aug. 17 by the Director of Public Service for paving a number of streets.

Columbus, Ohio—Bids will be received until 10 a.m., Aug. 23, by John Scott, Clk. of the Bd. of County Comrs. of Franklin County, for improving roads in various townships.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Aug. 6, by Clinton Cowen, State Highway Comr., for improving a number of roads in various counties.

✚**West Jefferson, Ohio**—A contract for paving a number of streets has been awarded to the ANDREWS PAVING CO., Hamilton, at $40,000. Noted June 17 and July 15.

Greencastle, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 4, by the Commissioners of Putnam County for constructing a gravel road on line between Putnam and Parke Counties.

Portland, Ind.—(Official)—No contract has been awarded for improving Commerce and Ship St. as the Mayor vetoed the improvement resolutions. Noted July 15.

✚**Warsaw, Ind.**—The contract for constructing the Gwin Rd. has been awarded to T. E. SPARKS, Kirkland, at $19,500.

Mt. Carmel, Ill.—Bids will be received until Aug. 12 for constructing 20 miles of gravel roads in District No. 3. E. E. Seiles is Clk.

✚**Green Bay, Wis.**—(Official)—A contract for paving various streets has been awarded to WILLIAM PICKETT, 1200 Doty St., Green Bay, at $10,400. Other bids were: Murphy Construction Co., $11,400; Carlin Bros., $10,977. Noted June 10.

Neenah, Wis.—Bids will be received until 2 p.m., Aug. 23, by the Board of Public Works for paving Walnut St. from East Wisconsin to Doty Ave.

West Allis, Wis.—Press reports state that the City Council plans to pave Greenfield, National and Mitchell St.

✚**Clinton, Iowa**—The contract for repaving Fourth St. from Fifth to 10th St. has been awarded to THOMAS CAREY & SONS, Clinton, at $27,917.

✚**Grundy Center, Iowa**—A contract for paving a number of streets with asphaltic concrete has been awarded to the FORD PAVING CO., Cedar Rapids.

Idagrove, Iowa—The citizens will soon vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for street paving.

✚**La Mars, Iowa**—A contract for paving 43 blocks with concrete has been awarded to A. R. LAKE.

✚**Spencer, Iowa**—(Official)—A contract for laying 70,000 sq.yd. of pavement has been awarded to the BRYANT PAVING CO., Waterloo, at $12,000. Noted July 15.

✚**Duluth, Minn.**—The contract for paving 12th Ave. has been awarded to OLSEN & JOHNSON, Duluth.

Northfield, Minn.—An election will be held Aug. 12 to vote on the question of issuing $19,000 in bonds, part of the proceeds will be used for street paving.

✚**Hutchinson, Kan.**—The contract for improving Main St. has been awarded to the STOMEY-MACKEY CONSTRUCTION CO., at approximately $30,000.

✚**Omaha, Neb.**—The contract for paving 24th St. from Vinton to A St. and 13th St. from Mason to Howard St. with brick has been awarded to the JAMES J. PARKS CO., South Omaha, at $52,000.

✚**York, Neb.**—A contract for paving in Districts No. 10 and 11 has been awarded to ABEL & ROBERTS, Lincoln, at $36,500.

Jefferson City, Mo.—Press reports state that the citizens of Cole County contemplate voting on the question of issuing $100,000 in bonds, the proceeds of which will be used for improving roads.

Kirkwood, Mo.—The city contemplates constructing two miles of streets, at an estimated cost of $14,000.

Poplar Bluff, Mo.—Bids will be received until Aug. 16 by E. C. Thomas, City Engr., for constructing 65,000 sq.yd. of concrete pavement, at an estimated cost of $10,000.

Springfield, Mo.—Plans are being prepared for the construction of approximately 100 miles of roads in Greene County.

+Pine Bluff, Ark.—The contract for paving Laurel and 15th Ave. has been awarded to the KAW PAVING CO., Kansas City, at $43,202.

Amarillo, Tex.—A special election will soon be held to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for street improvements.

+Ft. Worth, Tex.—The contract for paving Richmond Ave. from Evans to New York Ave. has been awarded to the ROACH-MANIGAN PAVING CO.

Higgins, Tex.—At a recent election the citizens of Lipscomb County voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for constructing and improving roads.

Orange, Tex.—At a recent election the citizens voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for improving streets. Noted June 24.

+Ogden, Utah—A contract for paving in District No. 117 has been awarded to the J. P. O'NEIL CONSTRUCTION CO., Ogden, at $4163.

+Elko, Nev.—The Commissioners of Elko County have awarded a contract for the construction of the Secret Pass Rd., 16 miles from Halleck, to the SMITH-SPRAGGIN CO., Salt Lake City, Utah, at $9980.

Miami, Ariz.—Press reports state that an election will be held Aug. 12 to vote on the question of issuing $50,000 in bonds, part of the proceeds will be used for improving county highways in Gilla County.

+Bellingham, Wash.—The contract for paving the Lake Rd. has been awarded to L. H. LICH, at $41,236.

Colfax, Wash.—Bids will be received until 11 a.m., Aug. 7, by the Commissioners of Whitman County for draining, bridging and grading 11½ miles of Permanent Highway between Colfax and Pullman. John M. McCaw is County Engr.

+Seattle, Wash.—The contract for paving Horton St. has been awarded to D. H. TRAPHAGEN, Alaska Bldg., Seattle, at $20,555.

Stevenson, Wash.—At a recent election the citizens of Skamania County voted in favor of issuing $210,000 in bonds, the proceeds of which will be used for improving and constructing roads.

Tacoma, Wash.—Bids will be received until Aug. 14 by the Commissioners of Pierce County for improving Permanent Highway No. 5-A.

Walla Walla, Wash.—(Official)—Bids will be received until Aug. 10 by M. A. Power, City Clk., for paving Rose and 12th St.

Gresham, Ore.—The City Council will soon award the contract for hardsurfacing Roberts Ave. and Second St. The estimated cost of the work is $12,000.

Marshfield, Ore.—According to press reports, the City Council has voted to improve Pine St., at an estimated cost of $10,000.

Oswego, Ore.—Bids will be received until Aug. 5 by H. W. Koehler, City Recdr., for grading and hard surfacing Front St.

+Eureka, Calif.—The City Trustees have awarded a contract for street improvement to ELSMORE & JACOBS, at $6939.

+Gridley, Calif.—(Official)—A contract for paving a number of streets has been awarded to the CLARKE & HENERY CONSTRUCTION CO., Sacramento, at $52,609.

+Ontario, Calif.—The contract for paving A St. has been awarded to L. G. GARNSEY, Los Angeles, at $23,000.

+Richmond, Calif.—The City Council has awarded a contract for paving North Tenth St. with bitulithic to JOHN WORD, at $14,251.

Sacramento, Calif—(Official)—Bids were received July 26 by the State Highway Commission for constructing roads in various Counties as follows: (a) Colusa County, Division 3, Route 7, Section A, (b) Monterey County, Division 5, Route 2, Section D, (c) San Luis Obispo County, Division 5, Route 2, Section B, (d) Marin County, Division 5, Route 1, Section A, (e) Santa Barbara County, Division 5, Route 2, Section D; Clark & Henry Construction Co., Sacramento, (a) $5779; A. W. & C. H. Gorrell, San Francisco, (b) $72,848, (c) $70,864; W. A. Dontanville, Salines, (b) $69.064, (c) $74,492; Hoffmann & McLaren, Oakland, (b) $63,395; Lou G. Hare, Salines, (b) $76,527; Highway Paving & Construction Co., San Francisco, (b) $54,507; Twohy Bros., San Francisco, (b) $85,437, (c) $82,791, (d) $52,084; Tieslau Bros., San Francisco, (b) $73,966, (c) $74,802, (d) $28,883, (e) $71,802; Petersen & Grier, San Francisco, (b) $66,733, (c) $78,191; F. Rolandi, San Frencisco, (c) $72,651, (d) $29,088, (e) $73,685; Leigh G. Garnsey, Los Angeles, (c) $76,362, (e) $67,959; Bent Bros., Los Angeles, (c) $72,495; Pacific Coast Construction Co., Fresno, (c) $69,396; Bates Borland & Ayer, Oakland, (c) $75,079, (d) $26,849, (e) $61,564; Seabury B. Peterson, San Francisco, (c) $74,748; John D. Marsh, Bakersfield, (c) $67,809; Palmer & McBryde, San Francisco, (d) $25,489; Daniel O'Day Co., San Francisco, (d) $29,201; Baver & Beard, Two Rivers, (d) $27,421; W. J. Schmidt, Berkeley, (d) $34,872; Erickson & Petterson, Inc., San Francisco, (d) $34,290; Spring Construction Co., Berkeley, (d) $30,858; Sunset Construction Co., San Francisco, (d) $31,552; Fairbanks & Baechtel, Willits, (d) $29,961, (b) $69,919; R. B. Markle, Jr., San Francisco, (d) $21,255; Theodore Manetas, San Francisco, (d) $26,504; J. H. Falconer, Pinole, (d) $23,498; G. W. Conners, Eureka, (d) $26,885, (e) $63,005; O'Brein Bros., Martinez, (d) $28,220; Contra Costa Construction Co., Berkeley, (d) $27,532; P. H. Hoare, Oakland, (d) $24,476; C. [illegible] Hudson, Los Angeles, (e) $54,586; Maurice Ryan & Son, El [illegible]ro, (e) $65,293; Richmon Rothwell, Los Angeles, (e) $6[illegible]; Robert Sherer, Los Angeles, (e) $58,148; Occidental C[illegible]ruction Co., Los Angeles, (e) $69,655; F. L. Smith Co., E[illegible]ka, (e) $59,466; F. H. Green, Eureka, (e) $59,994; E. J. H[illegible] Santa Margarita, (e) $61,831. Noted July 15.

+Vernon, Calif.—The contract for paving Alama[illegible] St. from 38th to 56th St. has been awarded to the LOS [illegible]GELES PAVING CO., Hellman Bldg., Los Angeles.

Halifax, N. S.—Press reports state that the Ci[illegible] Council plans to construct concrete sidewalks on Morris St. [illegible]nd Victoria Rd. F. W. Doane is City Engr.

INDUSTRIAL WORKS

+Cambridge, Mass.—The contract for the constr[illegible]tion of a three-story, 100x100-ft. brick factory at Haywood and Main St. for J. L. Hammett has been awarded to J. M. & C. J. BUCKLEY, 164 Federal St., Boston, Mass. Densmore & Le Clear, 88 Broad St., Boston, Mass., is Arch.

Holyoke, Mass.—The Yoerk Tire & Rubber Co. will build a garage on Chestnut St. The estimated cost is $18,000. G. P. Alderman & Co. is Arch.

+Worcester, Mass.—The Wright Wire Co., Hammond St., has awarded the contract for the construction of a four-story brick addition to its plant to E. D. WARD. The estimated cost is $25,000.

+Hartford, Conn.—The Whitney Mfg. Co., Bartholomew Ave., has awarded the contract for the construction of a four-story, 60x64-ft. reinforced-concrete addition to its plant to the J. H. CROZIER CO., 721 Main St. William A. Boring, 32 Broadway, New York, N. Y., is Arch. Noted May 6.

New Haven, Conn.—The New Haven Pulp & Board Co. will build a brick building on Railroad Ave., estimated to cost $70,000.

New Haven, Conn.—Cowles Folman, 677 State St., will build a three-story, 60x75-ft. brick and steel garage and repair shop at State and Trumbull St. R. W. Foote, 424 Chamber of Commerce Bldg., is Arch.

Providence, R. I.—Simeon Klein, Ashburton St., will build a 2½-story, 46x100-ft. brick smelting plant.

Buffalo, N. Y.—The Dold Packing Co. will build a five-story, 100x160-ft. reinforced-concrete addition to its plant at William, Howard and Detroit St., to cost $200,000.

+Jamestown, N. Y.—The Gurney Ball Bearing Co. has awarded the contract for the construction of its plant to the LACKAWANNA BRIDGE CO., Buffalo, N. Y.

New York, N. Y.—(Borough of Brooklyn)—P. H. Connor will build a three-story, 100x128-ft. brick and concrete factory and warehouse on 18th St., to cost about $100,000. William Higginson, 13 Park Row (Borough of Manhattan), is Arch.

+New York, N. Y.—(Borough of Brooklyn)—(Official)—The TURNER CONSTRUCTION CO., 11 Broadway (Borough of Manhattan), has been awarded the contract for the construction of a seven-story, 100x168-ft. reinforced-concrete addition to the plant of A. Schrader's Son, Inc., Vanderbilt and Atlantic Ave. Timmis & Chapman is Arch.

+New York, N. Y.—(Borough of Brooklyn)—(Official)—The TURNER CONSTRUCTION CO., 11 Broadway (Borough of Manhattan), has been awarded the contract for the construction of an 11-story, 100x134x177-ft. reinforced-concrete factory at Flatbush Ave. and Concord St. for the Sperry Gyroscope Co. Frank J. Helmle, 190 Montague St., is Arch. Noted July 1.

New York, N. Y.—(Borough of Queens)—The Texas Oil Co., 17 Battery Pl. (Borough of Manhattan), will build a plant at Marsh St. and Dutchkills Creek to cost $100,000.

Syracuse, N. Y.—(Official)—Bids are being received by Edward A. Howard & Son, Arch., 503 The Bastable, for the construction of a $20,000 building for the Fleischmann Co. Noted July 29.

+Troy, N. Y.—The DEVERALL-SPENCER CO., Baltimore, Md., has been awarded the contract for the construction of a five-story concrete mill and a one-story warehouse for the Boutwell Milling & Grain Co. on South River St. The estimated cost is $70,000.

+Butler, N. J.—(Official)—Bids will soon be received for the construction of a three-story brick factory for the Pequanoc Rubber Co. The estimated cost is $25,000. Oakley Houman, 6 Park Ave., Paterson, N. J., is Arch. Noted July 1.

East Orange, N. J.—The Crocker & Wheeler Co. plans to build a 62x201-ft. concrete addition to its plant, to cost $18,000.

Newark, N. J.—J. Wiss & Sons Co., 31 Littleton Ave., will build a four-story, 50x75-ft. addition to its plant to cost about $15,000. Frederick A. Phelps is Arch.

Plainfield, N. J.—The Plainfield Storage Warehouse Co. will build a storage warehouse on East Third St. The estimated cost is $30,000.

Philadelphia, Penn.—The Eynon Evans Mfg. Co. will build a three-story, 50x120-ft. foundry and a 51x120-ft. machine shop at 17th and Allegheny St.

+Philadelphia, Penn.—The contract for the construction of a five-story, 35x140-ft. brick and steel factory at 503 Market St. for the Haverford Cycle Club has been awarded to the PHILIP HAIBACH CONTRACTING CO., 26th and Thompson St. Peuckert & Wunder, 310 Chestnut St., is Arch.

+Pittsburgh, Penn.—D. T. RIFFLE has been awarded the contract for the construction of a six-story, 54x110-ft. reinforced-concrete warehouse on Penn Ave. for the George S. Dougherty Co. Noted July 22.

+Baltimore, Md.—The Terminal Freezing & Heating Co. has awarded the contract for the construction of a six-story, 41x142-ft. cold-storage plant at 412-14 South Eutaw St. to the CONSOLIDATED ENGINEERING CO. The estimated cost is $20,000. Noted June 17.

+Baltimore, Md.—The Bartlett Haywood Co., South Charles St., has awarded the contract for the construction of an

addition to its plant to J. HENRY SMITH. The estimated cost is $100,000.

Sparrows Point, Md.—(Baltimore post office)—The Maryland Steel Co. will soon start work on improvements to its marine department to cost about $1,000,000.

Asheville, N. C.—The Azalea Woodworking Co., whose plant was recently destroyed by fire at a loss of $40,000, will be rebuilt. W. D. Riddick is Pres.

Richmond, Va.—The Albermarle Paper Co. will build a factory on Tredegar St., to cost $13,750.

Richmond, Va.—The Baldwin & Brown Co., Richmond, Va., will build a six-story warehouse on 17th St.

✚New Orleans, La.—(Official)—The Board of Port Commissioners has awarded the contract for the construction of a reinforced-concrete wharfhouse and warehouse to JACOB A. ZIMMERMAN, 18 East 41st St., New York, N. Y., at $1,109,000. Ford, Bacon & Davis, 921 Canal St., is Arch. Noted July 1.

Knoxville, Tenn.—The Ross & Republic Marble Co. will rebuild its plant which was recently destroyed by fire at a loss of $75,000. A. M. Glasgow is Vice-Pres. and Gen. Mgr.

✚Cleveland, Ohio—The Cleveland Ry. Co. has awarded the contract for the construction of a one-story, 100x111-ft. reinforced-concrete and brick repair shop to the W. I. THOMPSON & SONS CO. The estimated cost is $35,000.

✚Fostoria, Ohio—The contract for the construction of a packing plant for the Fostoria Provision Co., 106½ Main St., has been awarded to J. J. MYER, Lorain, Ohio, at $31,975. Noted July 15.

Toledo, Ohio—(Official)—Thomas F. Huber, Arch., is preparing preliminary plans for the construction of a building for the American Plumbers Supply Co., to cost approximately $100,000.

Toledo, Ohio—The Herbrand Co. will build a $20,000 addition to its plant.

✚Anderson, Ind.—The contract for the construction of two additions to the plant of the Remy Electric Co. has been awarded to ESHELMAN & SON. Estimated cost, $13,000.

Indianapolis, Ind.—The San-I-Deal Paper Bottle Co., recently incorporated with a capital of $200,000, will build a factory. G. K. Jeffries, Gen. Supt. of the Terre Haute, Indianapolis & Eastern Traction Co., is Pres.

Detroit, Mich.—The Northway Motor Co. will build an addition to its plant at 855-7 West Hancock St., to cost $40,000.

Detroit, Mich.—The Mazer Cigar Mfg. Co. plans the construction of a four-story, 31x103-ft. addition to its plant at Grandy and Theodore St. Jacob Mazer is Secy. and Treas.

✚Detroit, Mich.—The contract for the construction of a three-story addition to the plant of the Hudson Motor Car Co. has been awarded to the BRYANT & DETWILER CO. Albert Kahn, 58 La Fayette Ave. is Arch. Noted July 15.

Grand Haven, Mich.—The Ottawa Leather Co. plans the construction of a 110x180-ft. addition.

✚Ionia, Mich.—The Ypsilanti Reed Co. has awarded the contract to HERMAN & SON, Grand Rapids, Mich., for the construction of a five-story, 110x165-ft. factory.

Lansing, Mich.—The Reo Motor Car Co. will build three additions to its plant, to cost approximately $250,000.

Saginaw, Mich.—(Official)—The Jackson-Church-Wilcox Co. will soon start work on the construction of a $25,000 addition to its plant.

Chicago, Ill.—Swift & Co., Chicago, Ill., will build a seven-story storage plant at the Union Stock Yards, to cost $125,000. B. H. Jielson is Arch.

Chicago, Ill.—The Chicago Title & Trust Co., 69 West Washington St., will build a seven-story reinforced-concrete warehouse at 411 West Ontario St., to cost $150,000. Paul Gerhardt, 64 West Randolph St., is Arch.

Chicago, Ill.—The Hanson & Van Winkle Co., Newark, N. J., and Clinton and Madison St., Chicago, Ill., will build a three-story, 50x70-ft. brick factory at 838 West Erie St., to cost $20,000. Huehl, Schmidt & Holmes, 154 West Randolph St., is Arch.

Chicago, Ill.—D. J. Hauptman, 1307 City Hall Sq. Bldg., will build a 75x125-ft. machine shop at 1744 North Kolmar Ave., to cost $14,000. D. S. Clafter, 64 West Randolph St., is Arch.

Chicago, Ill.—The Cudahy Packing Co. will build a two-story plant at 9101-11 Baltimore Ave., to cost $120,000. R. F. Newberry is Arch.

Chicago, Ill.—The Harder Storage & Van Co. will build an eight-story brick warehouse at 3948 Calumet Ave., to cost $25,000. S. H. Dunford is Arch.

Granite City, Ill.—The National Enameling & Stamping Co. plans to spend $200,000 for improvements to its plant. Thomas K. Niedringhaus is Vice-Pres.

Milwaukee, Wis.—The Northwestern R.R. Co. will build a grain elevator on Kinnickinnic Ave., to cost $500,000.

Monticello, Wis.—Edward Witter & Bros. plans the construction of a four-story, 50x100-ft. reinforced-concrete cold-storage warehouse at the Illinois Central R.R. tracks. The estimated cost is $32,500.

Des Moines, Iowa—Bids will soon be received by the Clemens Auto Co. for the construction of a four-story, reinforced-concrete warehouse at Tenth and Mulberry St., to cost about $40,000.

✚Omaha, Neb.—BUSK & WIND has been awarded the contract for the construction of a five-story, 66x132-ft. brick and concrete building at 15th and Jones St. for the Western Newspaper Union, at $90,000. John McDonald, Omaha National Bank Bldg., is Arch.

✚Kansas City, Mo.—GARDNER BROS. has been awarded the contract for the construction of a two-story, 49x90-ft. brick warehouse at 1905-7 Wyandotte St. for A. B. Stevens. The estimated cost is $17,000.

El Paso, Tex.—The Riverside Cement Co. plans the construction of a $300,000 plant.

Houston, Tex.—The Walker-Smith Grocery Co. plans the construction of a two-story, 100x100-ft. reinforced-concrete warehouse at Wood and Willow St., to cost $30,000.

San Antonio, Tex.—The International & Great Northern R.R. Co. has purchased a 108-acre tract on which it will build shops and roundhouses. The estimated cost is $500,000.

Seattle, Wash.—Bids will be reecived about Sept. 1 for the construction of a five-story, 72x242-ft. building to cost $500,000, or an eight-story building of the same dimensions to cost $850,000, for the Times Publishing Co. Bebb and Gould, Denny Bldg., is Arch.

Spokane, Wash.—Bids will soon be received for the construction of a $75,000 machinery warehouse at Monroe and Lincoln St. for the International Harvester Co.

Spokane, Wash.—The McClintock Trunkey Co., Washington and Stevens St., will build a five-story, concrete building on Stevens St., to cost $50,000.

Tacoma, Wash.—The Friddle Motor Car Co. will build a plant, estimated to cost $50,000. James A. Friddle is Pres.

✚Roseburg, Ore.—The contract for the construction of a saw-mill for Kendall Bros., Pittsburg, Penn., has been awarded to the ALLIS-CHALMERS CO., Milwaukee, Wis. The estimated cost is $350,000. Noted May 20.

✚Los Angeles, Calif.—The Hollywood Fireproof Storage Co., incorporated by C. E. Toberman, has awarded the contract for the construction of a two- and three-story, 55x140-ft. reinforced-concrete warehouse on Highland Ave. to the F. O. ENGSTRUM CO. E. P. Parcher is Arch. John F. Blee, 509 Union League Bldg., is Engr. Noted Mar. 11.

✚San Fernando, Calif.—(Official)—The contract for the construction of a lemon packing plant for the San Fernando Lemon Association has been awarded to H. T. KEMP, Pasadena, Calif., at $17,650. Other bids were: F. O. Engstrum Co., $20,540; Hall Martin Co., $26,766; John Simpson Co., $26,300; Alta Planing Mill Co., $20,985; William Loesch, $21,500. H. A. Hamm, 100 North Daisy Ave., La Manda Park, Calif., is Arch. Noted July 1.

FEDERAL GOVERNMENT WORK

Riprap—New London, Conn.—Bids will be received until 2 p.m., Aug. 10, at the U. S. Engineer Office, for furnishing and placing about 2000 long tons of riprap for the repair of breakwaters at Duck Island Harbor and at the mouth of the Housatonic River, Conn.

Post Office—Gouverneur, N. Y.—Bids will be received by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Sept. 19, for the construction of a post office at Gouverneur.

Riprap—New York, N. Y.—The following bids were received by the Lighthouse Inspector, Tompkinsville, for furnishing about 2700 tons riprap at the Coney Island Light Station. Bouker Contracting Co., $2.75 ton; W. J. Scanlon Co., $1.80; O'Brien Bros., Inc., $2.50; W. H. C. Russell, $1.43; R. M. Brown, $1.97; A. M. Hazell, $1.65; A. R. Morrison, $1.80; C. R. Simpson, $1.60. Noted July 8.

Scow and Dredge—New York, N. Y.—All bids received for constructing the scow and dredge "General Gillespie," have been rejected. Noted May 6 and June 17.

✚Dredging—New York, N. Y.—(Borough of Queens)—The contract for dredging in Newton Creek, has been awarded to P. SANFORD ROSS, INC., at 26½c. per cu.yd. Noted June 3 and July 29.

★Stone—Cold Spring, N. J.—Bids will be received until 11 a.m., Aug. 20, at the U. S. Engineer Office, Old Federal Bldg., Wilmington, Del., for repairs to Cold Spring Inlet.

Storehouse—Indianhead, Md.—Bids will be received until 11 a.m., Aug. 28, by William M. Smith, Act. Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a corrugated steel storehouse at the naval proving ground.

Underground Cable and Motor Apparatus—Washington, D. C.—Bids will be received by the Commissioners, District of Columbia until 2 p.m., Aug. 24, for furnishing underground signal and telephone cable, and until Aug. 9, for furnishing four automobiles. Specifications may be obtained of the Purchasing Officer, 320 District Bldg.

✚Building—Radio, Va.—The contract for constructing a brick office building has been awarded to W. E. MOONEY, Washington, D. C., at $6966. Noted Apr. 22.

Post Office—Charlotte, N. C.—All bids received for the construction, of the U. S. post office and court house at Charlotte, have been rejected. Noted May 27 and July 29.

Bulkhead—Charleston, S. C.—Bids will be received by the Light House Inspector, until noon Aug. 10, for constructing timber bulkhead at site of new Charleston light house depot on the Ashley River.

Buildings and Incinerator—Port Royal, S. C.—Bids will be received by William M. Smith, Act. Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Aug. 28, for the construction of buildings and incinerator at Paris Island, Port Royal.

✚Jetties—New Orleans, La.—The contract for furnishing and placing on jetty at Southwest Pass, Mississippi River, about 12,000 tons of stone has been awarded to A. F. ALEXANDER, New Orleans, La., at $47,640. Noted July 8.

★Light Station—New Orleans, La.—Bids will be received by the Lighthouse Inspector, until 2 p.m., Sept. 10, for the construction of a light station and five lighted beacons for the Atchafalaya Entrance.

★Fuel Flats and Barges—Cincinnati, Ohio—Bids will be received at the U. S. Engineer Office, 405 Customhouse, until 2 p.m., Aug. 31, for constructing and delivering four steel fuel flat and two steel barges.

Breakwater and Pierhead—Conneaut, Ohio—The lowest bid submitted for the construction of the pierhead and rubble mound breakwater at Conneaut Harbor, was that of the Coast & Lakes Contracting Co., 1836 Euclid Ave., Cleveland, Ohio. Noted July 8.

✚Dredging—Grand Marais, Mich.—The contract for dredging at Grand Marais has been awarded to the DULUTH-SUPERIOR DREDGING CO., Duluth, Minn., at $5940. Noted July 29.

Excavation—Newell, S. D.—Bids will be received by the U. S. Reclamation Service, Washington, D. C., until 4 p.m., Aug 27, for the construction of the North Canal extension and laterals, Belle Fourche project, in the vicinity of Newell. The work involves the excavation of about 65,900 cu.yd. of material in open cut.

Bridge—Great Falls, Mont.—Bids will be received by the U. S. Reclamation Service, Washington, D. C., until 2 p.m., Sept. 8, for furnishing and erecting a steel bridge of three 100-ft. spans and a structural steel movable crest with operating machinery for the Vandalia dam of the Milk River project.

✚Irrigation—Great Falls, Mont.—A contract has been awarded the TWO-MIRACLE CONCRETE CORPORATION, at $31,383, for the construction of laterals A and 31-A, on the Flathead Irrigation Project.

Post Office—Fulton, Mo.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Sept. 7, for the construction of the post office at Fulton.

Post Office—Webb City, Mo.—The following bids were received for the construction of the post office at Webb City: (a) limestone; (b) sandstone: R. S. Moore, Lafayette, Ind., (a) $55,920; Frank L. Johnson, Duluth, Minn., (a) $54,696; Kreipke & Schafer Construction Co., El Reno, Okla., $59,000; W. H. Fissell & Co., St. James Bldg., New York, $53,000, (b) $56,000; W. G. Carter Co., Chicago, Ill., (a) $56,535, (b) $61,035; G. W. Miller & Co., Carthage, Mo., (a) $59,900, (b) $69,900; E. A. Steininger Construction Co., St. Louis, Mo., (a) $56,700; Southern Construction Co., Overland, Mo., (a) $59,205, (b) $63,500; George A. Shaul, Seneca, Kan., (a) $50,742; Callahan-Mandl Co., Chicago, Ill., (a) $53,885, (b) $56,885; Barnes Bros., Logansport, Ind., (a) $53,700, (b) $59,700; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $55,987; Algernon Blair, Montgomery, Ala., (a) $51,408; Colonial Construction & Supply Co., Inc., Charlottesville, Va., (a) $53,997; (b) $56,997; Thomas W. Cissell, Wooster, Ohio, (a) $58,000, (b) $61,000; Rogers & Kaiser, People's Gas Bldg., Chicago, Ill., (a) $55,448; (b) $58,977; G. W. Stiles Construction Co., Rookery Bldg., Chicago, Ill., (a) $57,875; Mayben & Freuchtel, Gadsden, Ala., (a) $56,763; Hiram Lloyd Building & Construction Co., Odd Fellows' Bldg., St. Louis, Mo., (a) $53,176; (b) $58,176. Noted June 17.

Post Office and Courthouse—Amarillo, Tex.—Bids will be received by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Aug. 31, for the construction of a post office and courthouse at Amarillo.

✚Building—Marlin, Tex.—The contract for the construction of a post office has been awarded to VOLNEY E. TAYLOR, Ennis, Tex., at $44,750. Noted May 13.

Reclamation Service—Provo, Utah—According to press reports the following bids were received for constructing 13 miles of lateral canals of the Strawberry valley reclamation project in Goshen valley: Heuser & Sims, Salt Lake, $73,547; G. H. Gilkerson, Salt Lake, $74,342; Mendenhal, Straw & Bird, Springville, $93,111. Noted July 1.

✚Extension to Jetties—Portland, Ore.—The contract for enlarging and repairing receiving wharves and tramways and extending jettys at mouth of Siuslaw River, has been awarded to the MIAMI QUARRY CO., Portland, at $176,570. Noted July 29.

★Light Station—Navassa Island, West Indies—Specifications for the construction of the light station are on file at the office of "Engineering News" 10th Ave. and 36th St. New York. Noted July 22.

MISCELLANEOUS

★Dredging—Boston, Mass.—(Official)—Bids will be received by Edward L. McSweeney, Chn., Dirs. of the Port of Boston, until noon, Aug. 11, for dredging at Pleasant Park Yacht Club, Winthrop, Orients Heights Yacht Club, East Boston, and Wessagusset Yacht Club, North Weymouth. Bids will also be received at the same time for dredging at Malden Bridge in the Mystic River, Charlestown.

Dredging—Boston, Mass.—The following are the bids received by the Harbor and Land Commission for dredging Wellfleet, Barnstable and Nobscusset harbors. For the work at Barnstable the bids were as follows:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)	Filling in on Shore, (cu.yd.)
John H. Gerrish	.....	$6.00	$0.163
J. S. Packard Dredging Co.	$0.299	7.00	.237
Eastern Dredging Co.	.23	9.50	.29
J. P. O'Riordan	.19	10.00	.....
John R. Burke	.24	10.00	.....
Bay State Dredging Co.	.23	10.00	.....

The Nobscusset (Dennis harbor) bids were:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)
Bay State Dredging Co.	$.315	$10.00
J. S. Packard Dredging Co.	.2689	8.00
John H. Gerrish	.213	8.00
Eastern Dredging Co.	.1945	10.00
John P. O'Riordan	.255	10.00
John R. Burke	.28	10.00

John H. Gerrish also submitted an alternate bid, stating that if awarded the Barnstable contract he would do the dredging at Nobscusset for $0.183c. per cu.yd. The Wellfleet bids were:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)
Bay State Dredging Co.	$.20	$10.00
J. S. Packard Dredging Co.	.239	.239
John H. Gerrish	.143	6.00
Eastern Dredging Co.	.205	9.50
J. P. O'Riordan	.255	10.00

✚Dredging—Boston, Mass.—(Official)—The contract for dredging 15,000 cu.yd. in the channel of the Aberjona River has been awarded to COLEMAN BROS., Chelsea, Boston, at $13,500. Other bids were Lawler Bros., $33,000; John P. Cavanagh Co., $26,250; Bay State Dredging Co., Ltd., $20,850; Eastern Dredging Co., $13,725; William R. Farrell, $13,650. John R. Rablin is Ch. Engr. Noted July 22.

★✚Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the construction of Section No. 3, Route No. 12, of the Eastern Parkway subway has been awarded to RODGERS & HAGGERTY, Harlem River and 152d St., at $2,170,652. Noted July 15 and 29.

★Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received by the Public Service Commission for the construction of Section No. 2, Route No. 29 of the Nostrand Ave. Subway: Dock Contractor Co., Union Sq. Park, New York, $1,692,370; D. Donegan Co., $1,849,286; T. A. Gillespie Co., $1,879,998; Newman & Carey, $1,953,097; Rodgers & Hagerty, Inc., $2,010,207; Underpinnig & Foundation Co., $2,110,057; Oscar Daniels Co., $2,112,924; Mason & Hanger Co., Inc., $2,150,242; E. E. Smith Contracting Co., $2,184,360; John J. Creein, $2,811,475. Noted July 15.

Hose Reel Carts—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by J. T. Fetherston, Comr., Dept. of Street Cleaning, until noon, Aug. 9, for furnishing and delivering 100 hose reel carts.

✚Lamp Posts—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering c.-i. lamp posts with steel shafts for the Department of Water Supply, Gas and Electricity, has been awarded to the J. L. MOTT CO., 118 Fifth Ave., New York, at $39,568. Noted July 29.

✚Automobile Runabouts—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 20 automobile runabouts to the Fire Department has been awarded to the FORD MOTOR CO., 1723 Broadway, New York, at $8465. Noted July 22 and 29.

★✚Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for the construction of Section No. 3, Routes Nos. 4 and 36, a part of the Broadway subway, has been awarded to the HOLBROOK, CABOT & ROLLINS CORPORATION, 52 Vanderbilt Ave., New York, at $3,730,913. Noted July 15 and 29.

★Subway Station—New York, N. Y.—(Borough of Queens)—(Official)—Bids were received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of the station finish on Route No. 50 of the Queensboro Subway extension, and Section Nos. 1 and 3, Route Nos. 36 and 37, of the Corona Elevated R.R. from Snare & Triest Co., 233 Broadway, New York, $611,563, and Marble Arch Co., 216th St. and Broadway, New York, $750,000. The above figures are the unofficial totals. Noted July 15.

Elimination of Grade Crossing—Passaic, N. J.—The Lackawanna R.R. has entered into agreement with the Acquackanonk Township Committee for the elimination of its grade crossing at River Road, Delawanna, by the construction of a bridge over the tracks and depressing the roadway at William St.

★Grading—Trenton, N. J.—(Official)—Bids will be received by E. J. Edwards, Comptroller, State House, Trenton, until noon, Aug. 17, for about 60,000 cu.yd. of grading and filling in the rear of the Capitol.

Motor Fire Apparatus—Edwardsville, Penn.—The City Council has passed an ordinance appropriating $15,000 for the purchase of motor fire apparatus.

Dredging, Etc.—Philadelphia, Penn.—Bids will be received by John Meigs, Dir., Dept. of Wharves, Docks and Ferries, until Aug. 16 for dredging in Delaware River Channel also for constructing a temporary bulkhead in the Schuylkill River.

★✚Wharf and Warehouse—Augusta, Ga.—The contract for constructing the reinforced-concrete wharf and steel warehouse, has been awarded by the City Council to the GEORGIA CONTRACTING CO., Augusta, at $27,956. Noted June 24 and July 15.

Drainage—New Albany, Miss.—It is reported that bids will be received by the Big Creek Drainage District, New Albany, until Aug. 9 for drainage work, requiring about 276,822 cu.yd. of excavation.

Drainage—Selmer, Tenn.—Press reports state that bids will be received until Aug. 12 by the Cypress Creek Drainage District, No. 9, for the construction of a Canal 4.8 miles long.

Terminal Improvements—Louisville, Ky.—It is planned to improve the water front by the construction of a terminal system. The Board of Trade is interested.

✚Grand Stand—Louisville, Ky.—The contract for the erection of the concrete grandstand on the athletic field of the high school, has been awarded to ORVID NORELL, Louisville at about $15,000.

Ditch—Morganfield, Ky.—The contract for the construction of the O'Nan Public ditch will soon be awarded. The plans call for about 13½ miles of ditch, requiring 622,000 cu.yd. of excavation. Norman R. Arcutt, Morganfield, is Ch. Engr.

Motor Fire Apparatus—Bellaire, Ohio—Bids will be received by the Director of Public Service until Aug. 11 for furnishing two fire trucks, and one tractor for a chemical and hose cart. Noted July 1.

Elimination of Grade Crossings—Cleveland, Ohio—According to press reports work will start about Sept. 15 on the elimination of grade crossings in Cleveland by the New York, Chicago & St. Louis Ry. Noted Mar. 18.

✚**Ditch**—Defiance, Ohio—The contract for the Lost Creek Ditch Improvement No. 437 has been awarded to GILMORE BROS. and EDWARD BODETT, Toledo, Ohio, at $46,000. There will be 528,422 cu.yd. of dredging required. Noted Mar. 18.

Dredging—Lima, Ohio—According to press reports, plans have been prepared for improving and dredging the Ottawa River.

✚**Motor Fire Apparatus**—Martins Ferry, Ohio — The contract for furnishing two motor fire engines has been awarded to the AHERNS-FOX CO., Cincinnati, at $10,800. Noted May 13.

Track Elevation Work—Ft. Wayne, Ind.—Bids will be received by H. W. Becker, Clk., Dept. of Pub. Wks., until Aug. 12 for constructing the city's portion of work under Track Elevation Resolution No. 12.

✚**Dredging**—Indianapolis, Ind.—The contract for dredging the Lagoon in Garfield Park, has been awarded by the Board of Park Commissioners to the S. M. TIMBERLAKE CO., American Central Life Bldg., at cost plus 40%. Noted July 15.

Drainage—Oak Creek, Wis.—Bids will be received by the Town Board until 10 a.m., Aug. 19, for the construction of the Oak Creek tile drain. P. J. Hurtgen, Burlington, Wis., is Engr.

Drainage—Corydon, Iowa—Surveys are being made in the Eighth Ward for the construction of a drainage system. The estimated cost is $200,000. Warren W. Reed, Morgan City, Iowa is Engr.

Drainage—Ft. Madison, Iowa—It is reported that plans are being prepared for the construction of levees and drains at an estimated cost of $348,000; also for the erection of a pump house, at an estimated cost of $47,000. Edmund T. Perkins, Chicago, Ill., Engr.

River Improvement—Villisca, Iowa—The County Commissioners plan to straighten the West Nodway River. Surveys are being made.

Ditch—Mankato, Minn.—It is reported that bids will be received by C. L. Kennedy, County Audr., until Aug. 16 for constructing Ditch No. 37. The estimated cost is $11,856.

✚**Mausoleum**—Wichita, Kan.—The contract for the construction of a stone and marble mausoleum 60x136 containing 400 crypts for the Highland Cemetery Association has been awarded to the PEOPLE'S MAUSOLEUM CO. Waterloo, Iowa, at $60,000.

Motor Fire Apparatus—Omaha, Neb.—The City Council has approved of spending $66,500 for the purchase of motor fire apparatus and the installation of a fire alarm system.

Pavilion—Excelsior Springs, Mo.—At a recent election the citizens voted in favor of issuing $20,000 in bonds, for the construction of a pavilion.

✚**Improvement to Creek**—Kansas City, Mo.—The contract for deepening and widening Turkey Creek Channel has been awarded to the GEORGE H. SEIDHOFF CONSTRUCTION CO., on a percentage basis. The estimated cost is $15,000. Curtis Hill, City Hall, is City Engr.

✚**Ditches**—Poplar Bluff, Mo.—The contract for constructing nine drainage ditches has been awarded by the County Commissioners to the NORTHERN CONSTRUCTION CO., Elkhart, Ind., at 6.6c. and 6.95c. per cu.yd. Noted July 15.

Dock—St. Joseph, Mo.—Plans are being prepared by the Board of Public Works for the construction of a dock. Charles Campbell is City Engr.

Addition to Pier—Camden, Ark.—Bids will be received by the Commissioners of Martin Free Bridge until Aug. 9 for building additions and reinforcing the pivot pier. I. A. Baum is Engr.

Elimination of Grade Crossing—Dallas, Tex.—The City Commission has appointed John F. Wallace, Consult. Engr., Chicago, Ill., to prepare a plan for grade crossing elimination in the streets of Dallas.

Wharves and Docks—Orange, Tex.—A bond issue of $150,000 has been voted for the construction of wharves and docks. Noted June 10.

Drainage—Counne, Utah—At a recent election the citizens voted in favor of a bond issue of $175,000 for the construction of ditches to drain 12,000 acres in Bear River valley.

Bulkhead—Seattle, Wash.—The Seattle Cedar Lumber Mfg. Co. plans to construct a bulkhead on Shilshone Ave., estimated to cost $100,000.

Mausoleum—Covina, Calif.—Lyman Farwell, Arch., Story Bldg., Los Angeles, is preparing plans for a mausoleum to be erected in Oakdale cemetery, Covina, for the Mausolos Mausoleum Co. The structure will be 50x152 ft., and will contain 320 crypts. It will be of reinforced concrete construction with terra cotta facing, marble and terra cotta interior finish, bronze work, etc., and will cost $35,000.

★**Piers**—Honolulu, Hawaii—(Official)—Bids will be received by Charles R. Forbes, Chn., Board of Harbor Commissioners, until 2 p.m., Sept. 22, for the construction of reinforced-concrete piers Nos. 8, 9 and 10, at the foot of Fort St.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Rumford, Maine—The town of Rumford has voted to construct a municipal building to cost $70,000.

Boston, Mass.—Plans have been prepared by G. Hewie Desmond, Arch., 15 Beacon St., for the construction of a hotel at Tremont and Mason St. The estimated cost is $1,300,000.

✚**Boston, Mass.**—The contract for the construction of the St. Matthews Church on Stanton St., has been awarded to McGAHEY & O'CONNOR, 318 Washington St. Charles R. Greco, 8 Beacon St., is Arch.

✚**Boston, Mass.**—The contract for the construction of the Dawes Memorial Lodging House for men has been awarded to HORTON & HEMENWAY, 683 Atlantic Ave. The estimated cost is $100,000. Brown & Walcott, 19 South La Salle St., Chicago, Ill., is Arch.

✚**Boston, Mass.**—John A. Keliher, Chn. of State House Com., 505 State House, has awarded the contract for the construction of an addition to the state house to WILLIAM CRANE, at $304,750. Other bids were: McGahey & O'Connor, $307,234; Norcross Bros. Co., $308,500; George B. Long, $313,707; Conners Bros. Co., $321,251; Casper Ranger Construction Co., $329,000; Cunningham Construction, $332,480; Marr Bros. & Stewart, $329,981; Leighton Mitchell, $321,736; G. B. H. Macomber Co., $337,900; P. O'Hearn, $397,318; W. A. & H. A. Root, Inc., $319,440; Whiton & Haynes Co., $329,621. Noted July 8.

✚**Cambridge, Mass.**—The contract for the construction of a six-story, 75x122-ft. apartment house on Massachusetts Ave. has been awarded to J. B. BYRNE, INC., 162 Sydney St. The estimated cost is $160,000. Henry Mears, 6 Beacon St., Boston, Mass., is Arch.

Medford, Mass.—F. W. Norris will build a three-story, 70x245-ft. brick block on Forest St. Charles R. Greco, 8 Beacon St., Boston, Mass., is Arch.

Milford, Mass.—Bids will soon be received for the construction of a two-story, 82x110-ft. brick school to cost $75,000. Collin & Phillips is Arch.

Pittsfield, Mass.—Mrs. Frederick S. Soolidge has donated to the city $100,000 for the construction of a tuberculosis hospital as a memorial to her husband.

Worcester, Mass.—George H. Clemens, Arch., Walker Bldg., has prepared plans for the construction of a police station on Waldo St. George C. Halcott, Room 35, City Hall, is Supt. of Pub. Bldgs.

Burrillville, R. I.—(Harrisville post office)—The state will build a tuberculosis hospital to cost about $120,000. Gilbert P. Parker, State House, Providence, R. I., is Secy. of Bd. of Control and Supply. Walter F. Fontaine, 285 Main St., Woonsocket, R. I., is Arch.

✚**Providence, R. I.**—The P. J. TROTTER BUILDING CO., East Providence, R. I., has been awarded the contract for the construction of a brick and granite church for St. Charles congregation on Lester St. The estimated cost is $75,000. W. F. Fontaine, Woonsocket, R. I., is Arch. Noted June 24.

Providence, R. I.—Bids will be received about Sept. 1 for the construction of a two-story brick grammar school on Charles St. The estimated cost is $150,000. William R. Walker & Son, 17 Cusotm House St., is Arch. Noted June 24.

Little Falls, N. Y.—Bids will be received until 8 p.m., Aug. 31, for the construction of a municipal building at Little Falls. The estimated cost is $100,000. M. A. Leahy is City Clk. and William N. Smith, 101 Park Ave., New York, is Arch. Noted May 27 and June 24.

New York, N. Y.—(Borough of Brooklyn)—(Official)—N. Serracino, Arch., 1170 Broadway, New York, is preparing plans for the construction of a hotel and restaurant at Ocean Parkway and Neptune Ave., Brighton Beach, for Felix Miserocchi, 29 West 27th St., New York.

New York, N. Y.—(Borough of Brooklyn)—Lewis F. Pilcher, State Arch., Capitol, Albany, is preparing plans for the construction of an addition to the patients' building at the Long Island State Hospital. The estimated cost will be $400,000.

New York, N. Y.—(Borough of Manhattan)—Herbert Lucas, Arch., 340 Madison Ave., is preparing plans for the construction of an apartment house at Fifth Ave. and 63rd St. on the site of the Progress Club. The estimated cost is $2,500,000.

New York, N. Y.—(Borough of Manhattan)—Work will soon be started on the construction of a 12-story apartment house at 80th St. and West End Ave. for J. C. Mayer and M. G. Mayer. The estimated cost is $250,000. Noted Feb. 11.

Asbury Park, N. J.—The Directors of the Seacoast National Bank plan to construct an auditorium. Estimated cost, $300,000. James M. Ralston is Pres. of the bank and F. H. Dodge, Allenhurst, is Arch.

East Orange, N. J.—Bids will be received until 8:30 p.m., Aug. 9, by Warren A. Clapp, Secy., Bd. of Education, Winans St., for alterations to the Eastern School. Guilbert & Betelle, 665 Broad St., Newark, is Arch.

Kearney, N. J.—The Common Council has arranged for an ordinance authorizing the issuing of $73,000 in bonds. The proceeds will be used for improvements to schools in Kearney.

Newark, N. J.—The Market & Beaver Realty Co. will rebuild the Newark Theater, 193 Market St. The cost is estimated at $750,000.

Paterson, N. J.—The Board of Estimate of the Board of Education will construct a new school in the Riverside Section instead of an addition to Public School No. 10 as previously mentioned. The estimated cost is $125,000. Noted July 1.

✚**Perth Amboy, N. J.**—HANS GREISON & SONS, 223 Jefferson St., Perth Amboy, has been awarded the contract for the construction of Public School No. 9. Noted Apr. 15 and 22.

Secaucus, N. J.—An election will be held Aug. 11 to vote on the question of isuing $40,000 in bonds. The proceeds will be used for the construction of an addition to Public School No. 1.

✚**Elizabethtown, Penn.**—(Official)—The contract for the construction of a three-story hospital for the Philadelphia Free Masons has been awarded to the POMEROY CONSTRUCTION CO., 1609 Ranstead St., Philadelphia, at $44,000. Guy King & Co., 1513 Walnut St., Philadelphia, is Arch. Noted June 3 and July 8.

✚**Harrisburg, Penn.**—JOHN F. BARNHART, 1727 North Third St., Harrisburg, at $63,778, has been awarded the contract for the construction of a school at Fifth and Mahontongo St. Noted June 24.

Harrisburg, Penn.—Bids will be received until 2 p.m., Aug. 10, by the State Board of Commissioners of Public Grounds and Buildings, Harrisburg, for the completion of a new fireproof main building (the first floor and basement having been

(Continued on page 107)

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section No. 3—Route Nos. 4 and 36

✚Bids were received July 27 by the Public Service Commission for the construction of Section No. 3, Route Nos. 4 and 36, a part of the Broadway Subway from (A) HOLBROOK, CABOT & ROLLINS CORPORATION (awarded contract), (B) Oscar Daniels Co., (E) MacArthur Bro[illegible] Co., (F) Underpinning & Foundation Co., (G) Degnon Contr[illegible]ting Co., (H) T. A. Gillespie Co., (I) Rapid Transit Subway Construction Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
107,400 cu.yd. earth excavation above mean high water	$3.25	$5.25	$5.45	$3.80	$4.25	$5.50	$5.75	$6.[illegible]	$6.00
3570 cu.yd. earth excavation for sewers, pipes, etc.	3.25	5.25	5.45	3.80	4.00	5.50	5.75	6.[illegible]	6.00
Rock Excavation									
195,400 cu.yd. station 210+60 to 219+75 and 223+00 to 243+80	5.25	5.25	5.45	7.00	6.25	5.50	6.50	7.[illegible]	7.50
26,300 cu.yd. station 219+75 to 223+00	5.30	12.00	9.50	10.00	15.00	11.00	15.00	12.[illegible]	9.00
9600 cu.yd. rock excavation for sewers, pipes, etc.	5.50	6.00	8.00	8.00	6.00	5.50	6.50	7.[illegible]	7.50
Underpinning Buildings									
1785 lin.ft. less than seven stories	100.00	15.00	50.00	60.00	40.00	60.00	40.00	60.[illegible]	50.00
915 lin.ft. from seven to twelve stories, inclusive	175.00	15.00	60.00	90.00	75.00	80.00	88.00	80.[illegible]	75.00
100 lin.ft. over twelve stories	250.00	150.00	100.00	100.00	125.00	100.00	150.00	100.[illegible]	150.00
1025 lin.ft. maintaining, protecting, etc., buildings	50.00	15.00	45.00	25.00	30.00	60.00	25.00	40.[illegible]	30.00
Maintaining Knickerbocker Hotel (lump sum)	25,000.00	20,000.00	10,000.00	6,000.00	12,000.00	12,000.00	30,000.00	20,000.[illegible]	15,000.00
Maintaining Times Building (lump sum)	5,000.00	7,500.00	10,000.00	6,000.00	17,000.00	10,000.00	10,000.00	10,000.[illegible]	5,000.00
Maintaining Longacre Building (lump sum)	25,000.00	20,000.00	15,000.00	6,000.00	21,000.00	12,000.00	7,500.00	10,000.[illegible]	10,000.00
Maintaining Comfort Station (lump sum)	5,000.00	4,500.00	3,000.00	6,000.00	2,500.00	5,000.00	7,500.00	2,000.[illegible]	3,000.00
4000 cu.yd. tunnel excavation for sewers	15.00	12.00	8.00	8.00	10.00	8.00	12.00	10.[illegible]	13.00
44,300 cu.yd. concrete masonry	9.00	10.00	8.25	9.50	10.00	9.00	9.00	10.50	11.00
5600 cu.yd. protective concrete	8.00	10.00	8.25	9.50	10.00	9.00	9.00	10.50	11.00
3200 cu.yd. rubble stone masonry	6.50	7.00	7.50	5.00	5.00	9.00	8.00	8.[illegible]	8.00
50 cu.yd. dry stone masonry	4.00	5.00	7.50	4.00	4.00	8.00	5.00	3.[illegible]	6.00
110 cu.yd. brick masonry	15.00	15.00	25.00	15.00	15.00	25.00	15.00	15.[illegible]	16.00
Placing column C-27 (lump sum)	1,000.00	500.00	2,000.00	1,500.00	1,200.00	1,500.00	500.00	1,000.[illegible]	560.00
50 cu.yd. hollow terra-cotta masonry	15.00	15.00	25.00	15.00	15.00	40.00	15.00	15.[illegible]	15.00
4000 bbl. grout of Portland cement	4.00	3.00	3.50	2.50	2.50	4.00	4.00	3.[illegible]	3.50
500 sq.yd. resurfacing concrete	1.50	2.00	2.00	.40	1.20	2.50	2.00	.[illegible]	3.00
100 lin.ft. timber piles	2.00	.25	1.00	.50	.40	.50	.25	.[illegible]	.75
2 M ft. b.m. timber foundations	80.00	40.00	100.00	40.00	60.00	40.00	50.00	45.[illegible]	75.00
50 cu.yd. broken stone or gravel	2.75	3.00	3.00	1.60	2.50	3.00	2.00	1.[illegible]	2.50
13,000 sq.yd. waterproofing, 1 ply	.32	.40	.50	.30	.45	.55	.50	.[illegible]	.50
100 sq.yd. waterproofing, 2 ply	.50	.65	.70	.60	.60	1.00	.75	.[illegible]	.75
27,300 sq.yd. waterproofing, 3 ply	.75	.90	1.00	1.00	.95	1.50	1.00	.[illegible]	1.50
100 sq.yd. waterproofing, 4 ply	1.00	1.25	1.20	1.30	1.20	1.85	1.50	1.[illegible]	2.00
100 sq.yd. waterproofing, 5 ply	1.50	1.60	1.50	1.60	1.50	2.30	1.75	1.[illegible]	2.50
600 sq.yd. waterproofing, 6 ply	1.75	2.00	1.75	1.80	1.80	2.70	2.00	1.[illegible]	2.75
100 sq.yd. waterproofing, dry ply	.20	.40	.50	.30	.30	.50	.40	.[illegible]	.50
1800 cu.yd. brick in asphalt mastic	25.00	25.00	25.00	27.00	25.00	35.00	20.00	25.[illegible]	30.00
100 lin.ft. 12-in. vitrified pipe	.70	.85	1.50	1.00	.90	.85	.80	.[illegible]	.80
100 lin.ft. 10-in. vitrified pipe	.65	.75	1.50	.80	.80	.75	.60	.[illegible]	.70
3800 lin.ft. 8-in. vitrified pipe	.55	.60	1.25	.60	.50	.60	.50	.[illegible]	.60
100 lin.ft. 6-in. vitrified pipe	.50	.50	1.00	.60	.40	.45	.40	.[illegible]	.50
100 lin.ft. 4-in. vitrified pipe	.45	.45	1.00	.30	.25	.30	.30	.[illegible]	.40
100 lin.ft. 6-in. c.i. pipe	.70	1.25	1.25	1.25	1.20	1.30	1.50	.[illegible]	1.10
4000 lin.ft. 4-in. c.i. pipe	.75	.60	1.00	.50	.75	.85	1.00	.[illegible]	.80
100 lin.ft. 10-in. c.i. pipe	1.25	2.50	1.60	1.50	2.00	2.20	2.25	1.[illegible]	2.00
50 lin.ft. 3-in. c.i. pipe, extra heavy, specials	1.00	1.25	1.50	1.00	.90	.85	1.00	.[illegible]	1.00
100 lin.ft. 4-in. c.i. pipe, extra heavy, specials	1.25	1.50	1.60	1.25	1.00	1.15	1.00	.[illegible]	1.25
150 lin.ft. 6-in. c.i. pipe, extra heavy, specials	1.50	1.75	1.75	2.00	1.40	1.75	1.50	1.[illegible]	1.70
50 lin.ft. 8-in. c.i. pipe, extra heavy, specials	2.00	3.00	2.00	2.25	2.00	2.35	2.00	1.[illegible]	2.00
229,200 duct ft. tunnel ducts	.10	.12	.15	.08	.12	.17½	.15	.[illegible]	.18
Riveted steel									
2630 ton Station 210+60 to 219+75 and 223+00 to 243+80	80.00	60.00	65.00	60.00	70.00	92.00	60.00	55.00	80.00
470 ton Station 219+75 to 223+00	90.00	70.00	100.00	60.00	125.00	106.00	85.00	75.00	90.00
75 ton cutting removal and disposal, old steel	50.00	100.00	100.00	12.00	45.00	50.00	65.00	50.00	50.00
Steel beams and shapes									
2740 ton Station 210+60 to 219+75 and 223+00 to 243+80	75.00	55.00	57.50	55.00	65.00	85.00	60.00	53.00	70.00
470 ton Station 219+75 to 223+00	85.00	65.00	100.00	55.00	90.00	95.00	80.00	73.00	75.00
1000 hole drilling holes in steel	1.00	1.00	1.50	.50	.25	.50	.75	.50	3.00
120 ton steel rods and bars	90.00	60.00	85.00	60.00	55.00	100.00	55.00	36.00	80.00
30 ton miscellaneous iron castings	75.00	70.00	100.00	50.00	65.00	100.00	50.00	55.00	75.00
2 ton miscellaneous iron furnishings	75.00	100.00	100.00	50.00	70.00	100.00	50.00	60.00	75.00
1000 lb. special wire forms	.10	.10	.15	.20	.10	.40	.15	.12	.10
5200 lin.ft. 1¼-in. oak or ash handrail	.25	.30	.50	.25	.40	.50	.50	.40	.60
10,000 sq.ft. steel gratings	1.50	2.00	1.50	1.40	1.50	1.50	1.25	1.30	1.50
4300 sq.ft. vault lights	2.00	1.75	1.50	1.10	1.40	1.40	1.25	1.20	1.50
6300 sq.yd. street surface restored within curbs	2.00	2.50	2.50	2.00	1.75	3.00	2.00	1.00	2.75
24,000 sq.yd. street surface, asphalt	2.50	2.50	3.50	3.00	2.70	3.00	3.00	1.80	3.00
850 sq.yd. street surface, granite block	2.00	2.00	3.50	2.00	2.50	2.00	3.00	1.00	4.00
100 lin.ft. street surface, New Blue Street curb	1.00	1.00	1.50	2.00	.90	1.50	1.50	1.00	2.00
100 lin.ft. street surface, 8-in. granite curb	1.50	1.50	2.50	2.00	1.20	3.00	1.75	2.00	2.50
7150 lin.ft. w.i. electric conduit, ¾ in.	.20	.20	.20	.20	.12	.20	.40	.16	.25
800 lin.ft. w.i. electric conduit, 1¼ in.	.25	.30	.45	.35	.25	.45	.50	.31	.40
450 lin.ft. w.i. electric conduit, 2 in.	.30	.35	.55	.40	.30	.60	.60	.38	.50
6800 lin.ft. w.i. electric conduit, 1 in.	.25	.25	.35	.30	.18	.30	.45	.23	.30
980 c.i. outlet boxes	1.00	1.50	1.00	1.00	1.00	2.00	.75	.70	1.00
12 c.i. pull boxes	1.50	2.00	2.00	2.00	2.00	2.00	6.00	.70	5.00
450 lin.ft. extra heavy c.i. pipe and fittings, 6 in.	2.00	1.75	2.00	1.75	1.50	2.00	1.50	.90	2.00
150 lin.ft. extra heavy c.i. pipe and fittings, 3 in.	1.50	1.25	1.50	1.00	.90	.90	1.00	.40	1.00
375 lin.ft. 12-in. vitrified pipe sewer	3.00	2.75	2.00	3.00	3.00	3.50	4.00	1.10	4.50
1720 lin.ft. 15-in. vitrified pipe sewer	3.00	3.00	3.00	3.50	3.50	4.40	4.50	1.50	5.00
100 lin.ft. 18-in. vitrified pipe sewer	3.00	3.50	3.50	4.00	4.00	5.25	5.00	2.00	6.00
100 lin.ft. 24-in. vitrified pipe sewer	4.70	5.50	5.00	4.50	4.80	7.00	5.50	3.00	7.00
12 ton c.i. sewer pipe, straight	40.00	50.00	60.00	70.00	45.00	58.00	60.00	45.00	50.00
4 ton c.i. sewer pipe, special	80.00	80.00	100.00	80.00	75.00	110.00	80.00	65.00	80.00
1800 lin.ft. egg-shaped sewer, brick or concrete, 3 ft., 6 in., x 2 ft., 4 in.	4.50	7.00	8.00	6.00	6.00	7.30	9.00	6.00	9.00
1440 lin.ft. egg-shaped sewer, brick or concrete, 4 ft., 0 in. x 2 ft., 8 in.	6.00	8.00	10.00	7.00	7.00	8.75	10.00	6.20	10.00
25 lin.ft. egg-shaped sewer, brick or concrete, 5 ft., 0 in., x 3 ft., 4 in.	7.50	9.00	20.00	8.00	8.50	13.00	11.00	7.00	15.00
60 lin.ft. circular sewer, brick or concrete or reinforced concrete, 3 ft., 6 in.	4.00	8.00	10.00	7.00	7.00	15.00	9.00	6.50	9.00
220 lin.ft. circular sewer, brick or concrete or reinforced concrete, 4 ft., 0 in.	5.00	9.00	12.00	8.00	8.00	15.00	10.00	7.00	10.00
1100 lin.ft. circular sewer, brick or concrete or reinforced concrete, 4 ft., 9 in.	7.00	10.00	12.00	9.00	9.20	21.00	11.00	8.00	15.00
70 lin.ft. circular sewer, brick concrete or reinforced concrete, 5 ft., 6 in.	10.00	11.00	20.00	10.00	10.50	25.00	12.00	10.00	20.00
7120 lin.ft. street surface railroad, underground trolley	20.00	12.00	20.00	17.00	7.00	5.00	12.00	6.00	12.00
Support, etc., M. B. R. T. R.R. (lump sum)	103,000.00	200,000.00	25,000.00	201,000.00	125,000.00	50,000.00	75,000.00	214,000.00	50,000.00
830 lin.ft. 6-in. water pipe	.75	.50	1.50	1.00	.80	.45	1.50	1.10	1.25
100 lin.ft. 10-in. water pipe	2.00	.75	2.00	1.25	1.40	.75	1.75	1.60	1.50
650 lin.ft. 12-in. water pipe	2.25	1.00	2.50	3.00	1.60	.90	2.00	2.00	2.00
100 lin.ft. 16-in. water pipe	3.00	1.50	5.00	3.50	2.00	1.20	2.50	2.25	3.00
1000 lin.ft. 20-in. water pipe	4.35	2.00	6.00	4.00	2.50	1.45	3.00	2.50	4.00
200 lin.ft. 48-in. water pipe	16.00	5.00	15.00	5.00	6.00	3.50	8.00	8.00	12.00
50 service connections, water	25.00	25.00	20.00	20.00	12.00	25.00	25.00	20.00	20.00
100 lin.ft. 3-in. gas pipe	.50	.25	.50	.80	.60	.30	1.00	.80	.75
870 lin.ft. 4-in. gas pipe	.65	.35	1.00	1.00	.75	.35	1.00	1.00	1.00

RAPID TRANSIT SYSTEM, NEW YORK—(Continued)

	A	B	C	D	E	F	G	H	I
2400 lin. ft. 6-in. gas pipe	1.15	.60	1.50	1.50	1.00	.45	1.25	1.50	1.25
800 lin. ft. 8-in. gas pipe	1.25	.75	1.60	1.75	1.30	.60	1.50	1.75	1.50
390 lin. ft. 10-in. gas pipe	2.00	1.00	1.80	2.00	1.50	.75	1.75	2.00	1.75
500 lin. ft. 12-in. gas pipe	2.75	1.00	2.50	2.50	1.80	.90	2.00	2.50	2.00
100 lin. ft. 16-in. gas pipe	3.50	1.50	5.00	3.00	2.40	1.15	2.20	3.50	2.25
350 lin. ft. 20-in. gas pipe	4.35	2.00	5.00	4.00	3.00	1.45	2.50	5.00	3.00
100 lin. ft. 30-in. gas pipe	9.00	3.50	7.00	6.00	4.30	2.20	3.00	6.00	5.00
6650 lin. ft. 8-in. w.i. by-pass pipe	3.50	3.50	6.00	3.00	3.00	5.00	4.00	2.50	5.00
100 lin. ft. 16-in. w.i. by-pass pipe	9.00	5.00	10.00	8.00	3.50	7.00	5.00	5.00	8.00
100 lin. ft. 20-in. w.i. by-pass pipe	10.00	6.00	12.00	10.00	4.50	10.00	6.00	7.50	12.00
150 lin. ft. 24-in. w.i. by-pass pipe	12.00	7.00	15.00	13.00	6.00	15.00	7.00	9.00	15.00
200 lin. ft. 16-in. w.i. by-pass pipe above street surface	9.00	5.00	10.00	9.00	5.00	7.00	5.00	5.00	12.00
300 lin. ft. 20-in. w.i. by-pass pipe above street surface	10.00	6.00	15.00	11.00	6.00	10.00	6.00	7.00	16.00
250 lin. ft. 8-in. w.i. by-pass pipe above street surface	4.00	3.00	7.00	3.00	3.00	5.00	4.00	2.75	8.00
250 lin. ft. trestle for by-pass pipe	2.00	5.00	8.00	4.00	3.00	4.00	2.00	5.00	5.00
500 lin. ft. cable suspension, 16-in. pipes and over	7.50	5.00	8.00	2.00	6.00	4.00	2.00	4.00	5.00
200 lin. ft. cable suspension for 16-in. pipes and less	7.50	5.00	8.00	2.00	5.00	4.00	2.00	3.00	3.00
100 lin. ft. 4-in. w.i. gas pipe	2.00	.75	1.00	1.00	1.00	1.00	1.00	1.00	1.25
100 lin. ft. 6-in. w.i. gas pipe	3.00	1.25	1.50	1.50	1.20	1.50	1.50	1.50	1.50
100 lin. ft. 8-in. w.i. gas pipe	4.00	2.50	1.60	2.00	1.50	2.00	2.00	2.00	2.00
370 lin. ft. 10-in. w.i. gas pipe	5.00	3.00	1.80	2.50	1.70	2.50	2.25	3.00	2.25
100 lin. ft. 12-in. w.i. gas pipe	6.00	4.00	2.50	3.00	2.50	3.00	2.50	3.50	2.50
50 service connections, gas	15.00	25.00	25.00	15.00	12.00	25.00	25.00	25.00	20.00
105 ton new c.i. hub and spigot straight pipe	30.00	30.00	50.00	60.00	35.00	58.00	40.00	35.00	45.00
100 lin. ft. new standard weight w.i. gas pipe, 4 in	.75	.75	.50	.80	.75	1.00	1.00	1.50	1.25
100 lin. ft. new standard weight w.i. gas pipe, 6 in	1.00	1.25	.70	1.00	1.00	1.50	1.50	2.00	1.50
100 lin. ft. new standard weight w.i. gas pipe, 8-in	1.25	2.50	1.00	1.25	1.25	2.00	2.00	2.50	2.00
100 lin. ft. new standard weight w.i. gas pipe, 10 in	1.50	3.00	1.50	2.25	1.70	2.50	2.25	3.00	2.50
100 lin. ft. new standard weight w.i. gas pipe, 12 in	2.00	4.00	2.00	2.75	1.90	3.00	2.50	3.50	3.00
45 ton new c.i. hub and spigot special pipe	60.00	65.00	100.00	75.00	70.00	110.00	60.00	60.00	80.00
100 lb. new m.i. fittings for gas pipe	.10	.20	.25	.50	.08	.20	.15	.10	.20
200 lin. ft. 8-in. high pressure water pipe	1.95	1.00	2.00	2.50	1.60	6.00	2.00	2.50	3.00
660 lin. ft. 12-in. high pressure water pipe	3.50	1.50	3.00	3.00	2.50	9.00	3.00	3.00	4.50
100 lin. ft. 16-in. high pressure water pipe	6.35	2.00	4.00	3.50	3.50	12.00	4.00	3.70	6.00
740 lin. ft. 24-in. high pressure water pipe	10.00	3.00	5.00	4.50	5.50	18.00	5.00	4.50	8.00
25 ton new c.i. hub and spigot straight high pressure water pipe	30.00	40.00	50.00	50.00	35.00	58.00	40.00	40.00	50.00
20 ton new c.i. hub and spigot special high pressure water pipe	75.00	60.00	100.00	70.00	70.00	110.00	60.00	40.00	80.00
100 lin. ft. 6-in. air pipe in place	.30	1.00	2.00	1.50	1.25	2.50	1.00	1.00	3.00
50 lin. ft. 6-in. air pipe, new	1.00	1.50	2.00	1.00	1.25	3.00	1.00	1.00	5.00
100 lin. ft. 8-in. mail tube, in place	5.00	1.50	3.00	4.00	1.60	3.00	3.00	20.00	5.00
20 lin. ft. 8-in. mail tube, new, straight	10.00	2.50	8.00	6.00	1.60	4.00	3.00	20.00	10.00
30 lin. ft. 8-in. mail tube, new, special	25.00	5.00	10.00	12.00	2.50	25.00	5.00	20.00	20.00
23,000 duct. ft. electric ducts and conduits	.75	.75	1.00	.10	.50	.15	1.00	.30	.75
6000 lin. ft. w.i. pipe electric ducts and conduit, 2½ in	.60	.75	.50	.10	.40	.15	1.00	.30	.55
46,000 lin. ft. w.i. pipe electric ducts and conduit, 3 in	.70	.75	.60	.10	.45	.15	1.00	.30	.60
400 lin. ft. w.i. pipe electric ducts and conduit, 3½ in	.75	.75	.90	.10	.50	.15	1.00	.30	.65
100 lin. ft. w.i. pipe electric ducts and conduit, 4 in	.80	.75	1.25	.10	.55	.15	1.00	.30	.70
100 lin. ft. w.i. pipe electric ducts and conduit, 4½ in	.90	.75	1.75	.10	.60	.15	1.00	.30	.80
100 lin. ft. w.i. pipe electric ducts, 2 in. Edison	1.00	.75	.50	.10	.45	.15	1.00	.90	.50
200 lin. ft. w.i. pipe electric ducts, 2½ in. Edison	1.25	.75	.50	.10	.50	.15	1.00	1.00	.60
300 lin. ft. w.i. pipe electric ducts, 3 in. Edison	1.50	.75	.60	.10	.60	.15	1.00	1.10	.75
100 lin. ft. w.i. pipe electric ducts, 1½ in. Edison	.90	.75	.50	.10	.35	.15	1.00	.80	.30
200 lin. ft. w.i. pipe electric ducts, 2 in	.50	.75	.50	.10	.35	.15	1.00	.40	.50
90 lin. ft. service connections, electric	25.00	25.00	20.00	10.00	15.00	25.00	25.00	10.00	25.00
Extended totals	$3,740,913	$3,755,118	$3,814,808	$3,953,416	$3,958,975	$3,987,371	$4,166,934	$4,231,474	$4,444,118

STATE HIGHWAYS-CALIFORNIA

Bids were received July 19 by the State Highway Commission, Sacramento, Calif., for constructing highways in Los Angeles, Santa Clara and Alameda Counties, from (A) Homer R. Kennedy and Frank Williams, Los Angeles; (B) Peter L. Ferry, Tropico; (C) Andrew Holloway, Pasadena; (D) White & Gaskill, Long Beach; (E) Leigh G. Garnsey, Los Angeles; (F) Tryon & Brain, Los Angeles; (G) C. T. Solato and H. A. Taylor, Los Angeles; (H) Rogers Bros. Co., Los Angeles; (I) M. R. Co., Los Angeles; (J) Fred Hoffman, Long Beach; (K) Palmer & McBryde, San Francisco; (L) Bates Borland & Ayer, Oakland; (M) Highway Paving & Construction Co., San Francisco; (N) C. H. & A. W. Gorrill, San Francisco; (O) John W. McDonald, Jr., San Jose; (P) Marin Rock Co., San Anselmo; (Q) Commary Peterson Co., San Francisco; (R) Ransome & Crummy Co., Oakland; (S) Peterson & Brier, San Francisco; (T) Tieslau Bros., San Francisco; (U) Raisch Improvement Co., San Francisco; (V) Blanchard-Brown Co., San Francisco; (W) M. Blumenkranz, Davis; (W-1) Spring Construction Co., Berkeley; (X) H. G. Vaughn Construction Co., San Francisco; (X-1) Parrott Bros., Co., Salt Lake City, Utah; (Y) P. H. Hoare, Oakland; (Y-1) W. B. Hunt & Sons, Alameda; (Z) W. J. Schmidt, Berkeley; (Z-1) Engineer's Estimate. The item bids were as follows:

Los Angeles County	A	B	C	D	E	F	G	H	I	J	(Z-1)
21,570 cu.yd. excavation, unclassified	$1.00	$0.60	$0.51	$1.00	$0.70	$0.70	$0.55	$0.72	$0.815	$0.75	$0.40
26 lin.ft. 12-in. corrugated iron pipe	.50	1.00	.40	.75	.40	.50	1.00	1.00	.50	.40	.40
516 lin.ft. 18-in. corrugated iron pipe	.70	1.50	.50	1.00	.60	.70	1.50	1.00	.65	.75	.55
402 lin.ft. 24-in. corrugated iron pipe	.80	2.00	.75	1.00	.75	.85	2.00	1.00	.80	1.00	.70
485 cu.yd. concrete, Class B, for culverts and monuments	17.00	11.00	8.00	15.00	16.47	10.00	14.00	10.00	15.00	15.00	12.00
4800 cu.yd. concrete, Class B, for pavement	5.00	4.50	3.67	5.00	4.28	4.45	5.52	5.80	4.75	5.20	3.55
3612 lin.ft. guard rail	.75	1.00	.40	.75	.50	.45	.45	.40	.40	.50	.40
72 monuments	1.50	1.00	1.00	2.00	1.00	1.50	1.00	2.00	1.00	1.00	.50
Extended totals	$57,328	$45,165	$34,583	$56,635	$46,130	$43,758	$48,451	$50,753	$49,841	$51,090	$38,576

Santa Clara County	K	L	M	N	O	P	Q	R	S	T	U	V	(Z-1)
14,500 cu.yd. excavation, unclassified	$0.80	$0.92	$0.625	$0.70	$3.30	$0.57	$0.60	$0.75	$0.72	$0.90	$0.84	$0.90	$0.75
72 lin.ft. 12-in. corrugated iron pipe	.50	.60	.50	.60	.50	.50	.50	.60	.50	.50	.65	.50	.50
230 lin.ft. 18-in. corrugated iron pipe	.70	.75	.50	.70	.60	.70	.65	.80	.70	.75	.84	.72	.70
38 lin.ft. 24-in. corrugated iron pipe	.90	1.25	.60	.80	.75	.85	.75	1.00	1.00	1.00	1.00	.97	.80
100 cu.yd. concrete, Class B, for culverts and monuments	12.00	10.00	9.00	10.00	10.00	9.50	10.00	10.00	12.00	11.00	8.00	11.25	8.00
12,380 cu.yd. concrete, Class B, for pavement	3.65	2.85	2.84	3.00	3.30	2.77	2.94	2.90	3.30	3.60	2.60	3.24	2.75
800 lin.ft. guard rail	.40	.50	.40	.20	.40	.35	.40	.50	.35	.40	.35	.27	.30
79 monuments	1.00	.50	1.00	.50	1.00	1.50	1.00	2.00	2.00	1.50	2.00	1.80	.50
Extended totals	$58,617	$50,326	$45,695	$48,724	$90,305	$44,135	$46,710	$48,600	$51,929	$59,403	$45,884	$54,882	$53,161

Alameda County	K	L	N	P	Q	S	T	V	W	(W-1)	X	(X-1)	Y	(Y-1)	Z	(Z-1)
13,800 cu.yd. excavation	$0.75	$0.90	$0.60	$0.50	$0.65	$0.70	$0.75	$0.70	$0.55	$0.60	$0.515	$0.60	$0.65	$0.60	$0.70	$0.60
2800 cu.yd. burrow excavation	60	.45	.65	1.45	.90	.55	1.00	.35	.75	.65	.515	.80	.70	.60	.70	.50
300 lin.ft. 12-in. corrugated iron pipe	.50	.50	.60	.50	.60	.50	.50	.52	.50	.50	.75	.40	.30	.40	.50	.50
140 lin.ft. 15-in. corrugated iron pipe	.60	.60	.70	.60	.70	.60	.60	.63	.55	.63	1.00	.60	.40	.50	.50	.60
280 lin.ft. 18-in. corrugated iron pipe	.70	1.00	.75	.70	.80	.70	.75	.73	.65	.72	1.25	.75	.50	.55	.50	.70
410 lin.ft. 21-in. corrugated iron pipe	.80	1.00	.85	.75	.90	.80	.90	.87	.75	.80	1.50	.90	.60	.65	.50	.75
36 lin.ft. 24-in. corrugated iron pipe	.90	1.50	.90	.85	1.00	1.00	1.00	1.00	.80	1.10	2.00	1.00	.70	.75	.75	.80
100 lin.ft. 30-in. corrugated iron pipe	1.00	1.50	1.25	1.00	1.00	1.10	1.25	1.35	.90	1.50	2.50	1.25	1.00	.85	.75	1.10
215 cu.yd. concrete, Class B, for culverts and monuments	15.00	10.00	9.50	9.50	12.50	12.00	11.00	11.80	10.50	10.00	9.75	10.00	12.00	10.00	9.50	8.00
7100 cu.yd. concrete, Class B, for pavement	3.35	3.40	3.68	3.15	3.30	3.40	3.70	3.73	3.55	2.79	2.59	3.00	3.55	3.15	3.35	3.25
10,500 cu.yd. guard rail	.30	.35	.30	.35	.40	.30	.38	.27	.55	.29	.40	.30	.40	.40	.30	.30
37 monuments	1.00	1.00	1.50	1.50	1.00	2.00	1.50	1.80	1.00	1.50	1.00	1.50	2.00	.60	.50	.50
Extended totals	$42,884	$44,520	$42,222	$39,748	$42,589	$41,815	$46,542	$43,284	$43,581	$35,884	$34,485	$37,857	$43,471	$39,230	$41,138	$44,047

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.
Section No. 3—Route No. 12

Bids were received July 27 by the Public Service Commission for the construction of Section No. 3, Route No. 12 of the Eastern Parkway Subway from (A) Rodgers & Haggerty, Inc., (B) Charles Cooper, (C) T. A. Gillespie Co., (D) Dock Contractor Co., (E) A. L. Guidone & Son, Inc., (F) Battery Engineering & Construction Co. and Frazer & [illegible]erchemall Inc., (G) Mason & Hanger Co., (H) Connex Eng[illegible]ering & Construction Co., (I) Joseph E. Gaffney, (J) W. [illegible]ahagan, Inc., (K) Degnon Construction Co., (L) John J. [illegible]m. The item bids were as follows:

	A	B	C	D	E	F
471,800 cu.yd. earth excavation above mean high water	$1.40	$1.63	$1.50	$1.73	$1.7[illegible]	$1.35
9100 cu.yd. earth excavation above and below mean high water sewers	1.75	1.63	1.50	2.00	1.5[illegible]	1.55
146 maintaining, protecting and preserving trees (per tree)	25.00	10.00	10.00	70.00	10.0[illegible]	70.00
21 replacing trees, (per tree)	100.00	10.00	50.00	100.00	10.0[illegible]	70.00
77,500 cu.yd. concrete masonry	7.00	6.50	7.00	6.50	7.0[illegible]	6.50
3450 cu.yd. concrete masonry for reinforced concrete El. R.	8.00	6.50	12.00	12.50	8.0[illegible]	10.00
2530 sq.yd. tooling concrete surface of R. concrete on El. R.	.60	.90	.50	1.00	.6[illegible]	.25
4600 cu.yd. protective concrete masonry outside of water proofing	7.00	6.50	7.00	6.50	7.0[illegible]	6.50
20 cu.yd. rubble stone	3.00	6.50	8.00	7.00	4.5[illegible]	4.50
20 cu.yd. dry rubble	3.00	6.50	3.50	7.00	3.5[illegible]	3.50
35 cu.yd. brick masonry	15.00	12.00	12.00	15.00	12.0[illegible]	20.00
3 cu.yd. vitrified brick masonry	30.00	20.00	25.00	35.00	15.0[illegible]	25.00
50 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	12.00	20.00	12.0[illegible]	15.00
1000 grout of Portland cement	1.00	2.50	2.70	1.00	2.5[illegible]	2.50
1000 lin.ft. timber piles	.01	.01	.40	.20	.4[illegible]	.20
2 M ft. b.m. timber foundations	20.00	.01	45.00	40.00	50.0[illegible]	25.00
20 cu.yd. broken stone or gravel	2.00	2.00	2.20	1.00	2.0[illegible]	2.00
7000 sq.yd. waterproofing, 1 ply	.35	.50	.50	.40	.2[illegible]	.35
100 sq.yd. waterproofing, 2 ply	.60	.75	.50	.70	.3[illegible]	.60
33,000 sq.yd. waterproofing, 3 ply	.75	1.00	.90	1.00	.5[illegible]	.90
100 sq.yd. waterproofing, 4 ply	1.25	1.20	1.00	1.25	.7[illegible]	1.10
100 sq.yd. waterproofing, 5 ply	1.50	1.40	1.20	1.75	1.0[illegible]	1.25
200 sq.yd. waterproofing, 6 ply	2.00	1.60	1.50	2.00	1.2[illegible]	1.50
100 sq.yd. waterproofing, dry ply	.35	.45	.30	.20	.2[illegible]	.30
840 cu.yd. brick laid in asphalt mastic	20.00	20.00	18.00	23.00	18.0[illegible]	21.00
50 lin.ft. 12-in. vitrified drain pipe	.75	.70	.80	1.50	.6[illegible]	.75
50 lin.ft. 10-in. vitrified drain pipe	.65	.60	.60	1.30	.5[illegible]	.60
50 lin.ft. 8-in. vitrified drain pipe	.50	.50	.40	1.20	.4[illegible]	.45
50 lin.ft. 6-in. vitrified drain pipe	.45	.40	.30	1.10	.3[illegible]	.35
380 lin.ft. 4-in. vitrified drain pipe	.40	.30	.20	1.50	.2[illegible]	.25
50 lin.ft. 6-in. c.i. drain pipe	1.00	1.00	.80	1.50	.7[illegible]	1.25
50 lin.ft. 4-in. c.i. drain pipe	.50	.60	.60	1.00	.6[illegible]	1.00
50 lin.ft. 10-in. c.i. drain pipe	1.75	1.50	1.60	2.00	1.5[illegible]	2.25
50 lin.ft. 3-in. c.i. pipes and fittings (extra heavy)	1.00	1.00	.60	.85	.7[illegible]	.80
1950 lin.ft. 4-in. c.i. pipes and fittings (extra heavy)	1.25	1.25	.72	1.25	.8[illegible]	1.00
150 lin.ft. 6-in. c.i. pipes and fittings (extra heavy)	1.50	1.50	1.10	1.35	1.0[illegible]	1.50
150 lin.ft. 8-in. c.i. pipes and fittings (extra heavy)	2.50	2.00	1.40	2.00	1.2[illegible]	2.00
354,600 duct ft. tunnel ducts	.10	.09	.11	.11½	.1[illegible]	.08
92,200 duct ft. railroad ducts	.14	.12	.30	.15	.1[illegible]	.12
5550 ton riveted steel	55.00	48.00	54.00	55.90	52.9[illegible]	60.00
6100 ton steel beams and shapes	55.00	48.00	51.00	49.15	46.7[illegible]	55.00
950 ton steel rods and bars	55.00	48.00	40.00	44.00	70.0[illegible]	60.00
40 ton miscellaneous iron castings	60.00	70.00	56.00	30.00	60.0[illegible]	70.00
1 ton miscellaneous iron furnishings	100.00	70.00	61.00	100.00	75.0[illegible]	70.05
200 special wire forms	.10	.12	.12	.20	.0[illegible]	.10
14,200 lin.ft. 1¼-in. seasoned oak or ash hand rail	.30	.30	.40	.22	.2[illegible]	.35
310 lin.ft. 1½-in. galvanized iron pipe railings	.30	.70	.40	.50	.3[illegible]	1.00
8300 sq.ft. steel gratings for ventilation, including frames	1.50	1.30	1.30	1.40	1.3[illegible]	1.50
890 sq.ft. vault lights	1.00	1.30	1.30	1.30	1.2[illegible]	1.30
40 sq.yd. sidewalk restored, including curbs	1.50	1.00	1.00	1.00	1.0[illegible]	1.50
50 sq.yd. roadway restored (macadam)	1.00	1.00	.60	1.00	.5[illegible]	1.00
1955 sq.yd. roadway restored (asphalt)	2.50	2.50	2.00	1.50	2.2[illegible]	2.25
6660 sq.yd. roadway restored (granite block)	.75	2.00	.25	.50	1.2[illegible]	2.50
180 sq.yd. roadway restored (Belgian block)	.75	.80	.25	1.00	.2[illegible]	.70
540 sq.yd. roadway restored (asphalt block)	2.50	2.50	3.00	2.00	2.5[illegible]	3.00
100 lin.ft. new Bluestone curb	1.00	1.00	1.00	1.00	.9[illegible]	1.50
100 lin.ft. new S-in granite	1.50	1.50	2.00	1.00	1.2[illegible]	1.50
50 sq.yd. roadway restored (brick pavement)	3.00	2.00	2.00	1.80	1.8[illegible]	2.00
25,000 sq.yd. roadway restored macadam and asphalt bound	1.50	1.50	.75	.50	.8[illegible]	1.40
1690 sq.yd. park surface restored	.50	1.20	.50	1.00	1.0[illegible]	1.00
4600 lin.ft. ¾-in. w.i. electric conduits	.15	.20	.16	.18	.1[illegible]	.20
625 lin.ft. 1¼-in. w.i. electric conduits	.25	.40	.31	.32	.2[illegible]	.40
675 lin.ft. 2-in. w.i. electric conduits	.30	.60	.38	.40	.3[illegible]	.40
6075 lin.ft. 1-in. w.i. electric conduits	.20	.30	.23	.24	.2[illegible]	.25
700 c.i. outlet boxes	1.00	1.50	.70	.50	.7[illegible]	1.00
12 c.i. pull boxes	1.50	1.50	.70	3.50	1.2[illegible]	1.50
160 lin.ft. 6-in. c.i. pipes and fittings (extra heavy) in stations	1.50	2.00	.90	3.00	1.2[illegible]	1.50
125 lin.ft. 3-in. c.i. pipes and fittings (extra heavy) in stations	1.00	1.00	.40	2.75	1.0[illegible]	1.00
100 lin.ft. 12-in. vitrified sewer pipe	2.40	3.00	1.20	3.70	1.4[illegible]	2.00
100 lin.ft. 18-in. vitrified sewer pipe	3.25	4.00	2.00	4.00	2.1[illegible]	3.00
540 lin.ft. 24-in. vitrified sewer pipe	5.00	5.00	3.80	4.80	3.0[illegible]	4.50
11 ton c.i. straight sewer pipe	40.00	40.00	45.00	50.00	40.0[illegible]	45.00
5 ton c.i. special sewer pipe	75.00	50.00	65.00	70.00	75.0[illegible]	90.00
1030 lin.ft. 3ft., 6 in. x 2 ft., 4 in. egg-shaped sewer brick or concrete	6.00	7.00	5.50	5.00	6.2[illegible]	6.00
780 lin.ft. 4 ft., 6 in. circular sewer	8.00	10.00	6.50	6.00	7.0[illegible]	10.00
400 lin.ft. electric overhead trolley	2.00	10.00	6.00	.50	1.0[illegible]	5.00
100 lin.ft. 6-in. water pipe	.05	1.00	1.10	2.00	.8[illegible]	1.10
550 lin.ft. 8-in. water pipe	.05	1.30	1.50	2.00	1.0[illegible]	1.50
100 lin.ft. 36-in. water pipe	.05	3.50	5.00	7.00	5.0[illegible]	5.00
10 service connection for water pipes (all sizes)	.05	20.00	20.00	10.00	10.0[illegible]	20.00
100 lin.ft. 4-in. gas pipe	.05	.60	.75	.90	.7[illegible]	.60
700 lin.ft. 6-in. gas pipe	.05	.75	1.00	1.00	.8[illegible]	1.00
150 lin.ft. 8-in. gas pipe	.05	1.00	1.25	1.15	1.0[illegible]	1.30
2840 lin.ft. 12-in. gas pipe	.05	1.50	1.50	.75	1.2[illegible]	1.75
100 lin.ft. 30-in. gas pipe	.05	3.00	3.00	4.00	2.0[illegible]	5.00
450 lin.ft. 6-in. w.i. by passing pipe upon or below street service	.05	3.00	2.00	1.00	1.3[illegible]	2.50
2435 lin.ft. 12-in. w.i. by passing pipe upon or below street service	.05	5.00	3.15	1.50	2.0[illegible]	4.00
300 lin.ft. 12-in. w.i. by passing pipe on trestle	.05	5.00	4.00	1.50	1.0[illegible]	5.00
150 lin.ft. 24-in. w.i. by passing pipe on trestle	.05	12.00	6.00	3.00	2.4[illegible]	10.00
390 lin.ft. 6-in. w.i. by passing pipe on trestle	.05	3.00	2.75	1.00	.5[illegible]	3.00
600 lin.ft. trestle to support by passing pipes	.05	4.00	3.00	1.50	.7[illegible]	4.00
10 service connection for gas pipes (all sizes)	.05	20.00	15.00	10.00	10.0[illegible]	15.00
10 ton new c.i. hub and spigot pipe (straight)	20.00	50.00	35.00	45.00	40.0[illegible]	40.00
10 ton new c.i. hub and spigot pipe (special)	40.00	70.00	70.00	70.00	60.0[illegible]	70.00
3300 duct ft. electric ducts and conduits	.05	.50	.65	.90	.4[illegible]	.90
1300 lin.ft. 2-in. Edison w.i. electric ducts and conduits	.05	1.00	.50	.60	.4[illegible]	1.50
200 lin.ft. 2½-in. Edison w.i. electric ducts and conduits	.05	1.00	.65	.80	.4[illegible]	2.00
100 lin.ft. 3-in. Edison w.i. electric ducts and conduits	.05	1.00	.65	1.00	.5[illegible]	2.50
10 service connection for electric ducts	.05	20.00	10.00	25.00	15.0[illegible]	15.00
600 duct ft. wooden electric ducts and conduits	.05	.50	.65	.60	.5[illegible]	.75
Extended totals	$2,170,652	$2,192,301	$2,204,674	$2,271,167	$2,284,901	$2,287,[illegible]43

CATALOG NOTICES

Stephens-Adamson Mfg. Co., Aurora, Ill. Section 5, General Catalog No. 19. Gravel washing plants, screens, cars, hoists, etc. Illustrated, 622 pp., 6x9 in.

Picher Lead Co., Chicago, Ill. Catalog. Protective coatings for structural metals. Illustrated, 46 pp., 6x9 in.

Corrugated Bar Co., Buffalo, N. Y. Catalog. Corr-Mesh and Corr-Mesh lath, Corr-Bar-O waterproofing products. Illustrated, 64 pp., 6x9 in.

Westinghouse Electric & Mfg. Co. (Heavy Traction Dept.) East Pittsburgh, Penn. Circular No. 1505. Results of Electrification. Illustrated, 72 pp., 8½x11½ in.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.—(Continued)

	G	H	I	J	K	L
471,800 cu.yd. earth excavation above mean high water	$1.75	$2.15	$1.75	$1.70	$1.85	$3.10
9100 cu.yd. earth excavation above and below mean high water sewers	1.75	4.00	2.00	1.70	3.00	3.00
146 maintaining, protecting and preserving trees (per tree)	25.00	10.00	20.00	50.00	30.00	51.00
21 replacing trees, (per tree)	60.00	100.00	100.00	100.00	100.00	50.00
77,500 cu.yd. concrete masonry	7.00	7.00	7.25	7.75	7.50	8.00
3450 cu.yd. concrete masonry for reinforced concrete Fl. R.	8.75	8.00	9.50	12.00	10.00	10.00
2530 sq.yd. tooling concrete surface of R. concrete on Fl. R	.65	2.00	.70	2.00	2.00	1.00
4600 cu.yd. protective concrete masonry outside of water proofing	7.00	6.50	7.25	7.50	7.50	8.00
20 cu.yd. rubble stone	6.00	5.00	7.50	7.00	6.00	8.00
20 cu.yd. dry rubble	5.00	4.00	6.00	7.00	5.00	6.00
35 cu.yd. brick masonry	15.00	15.00	17.00	20.00	15.00	15.00
3 cu.yd. vitrified brick masonry	17.00	15.00	25.00	30.00	20.00	30.00
50 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	15.00	16.00	15.00	15.00
1000 grout of portland cement	2.50	2.00	2.75	1.00	1.50	2.50
1000 lin.ft. timber piles	.50	.20	.40	.01	.50	.35
2 M ft. b.m. timber foundations	50.00	25.00	50.00	50.00	50.00	50.00
20 cu.yd. broken stone or gravel	2.50	1.75	2.00	2.50	2.00	2.00
7000 sq.yd. waterproofing, 1 ply	.45	.30	.45	.27	.50	.40
100 sq.yd. waterproofing, 2 ply	.60	.47	.70	.50	.75	.65
33,000 sq.yd. waterproofing, 3 ply	.95	.75	1.10	.75	1.00	1.00
100 sq.yd. waterproofing, 4 ply	1.20	.90	1.30	1.00	1.25	1.25
100 sq.yd. waterproofing, 5 ply	1.50	1.12	1.70	1.25	1.50	1.50
200 sq.yd. waterproofing, 6 ply	1.80	1.32	2.30	1.50	1.75	2.50
100 sq.yd. waterproofing, dry ply	.30	.30	.40	.15	.40	.30
840 cu.yd. brick laid in asphalt mastic	25.00	19.00	28.00	20.00	20.00	25.00
50 lin.ft. 12-in. vitrified drain pipe	.90	.75	1.00	1.20	.80	.70
50 lin.ft. 10-in. vitrified drain pipe	.80	.65	.85	1.00	.60	.60
50 lin.ft. 8-in. vitrified drain pipe	.50	.55	.70	.80	.50	.50
50 lin.ft. 6-in. vitrified drain pipe	.40	.45	.60	.70	.40	.40
380 lin.ft. 4-in. vitrified drain pipe	.25	.40	.50	.50	.30	.30
50 lin.ft. 6-in. c.i. drain pipe	1.20	.75	1.50	1.50	1.50	1.00
50 lin.ft. 4-in. c.i. drain pipe	.75	.50	1.00	1.00	1.00	.60
50 lin.ft. 10-in. vitrified c.i. drain pipe	2.00	1.20	2.25	2.00	2.25	1.50
50 lin.ft. 3-in. c.i. pipes and fittings (extra heavy)	.90	.60	.75	1.00	1.00	.75
1950 lin.ft. 4-in. c.i. pipes and fittings (extra heavy)	1.00	.80	1.25	1.00	1.00	1.00
150 lin.ft. 6-in. c.i. pipes and fittings (extra heavy)	1.40	.90	1.50	1.50	1.50	1.25
150 lin.ft. 8-in. c.i. pipes and fittings (extra heavy)	2.00	1.20	1.60	2.00	2.00	2.00
354,600 duct ft. tunnel ducts	.10	.09	.10	.10	.15	.11
92,200 duct ft. railroad ducts	.13	.11	.14	.16	.20	.16
5550 ton riveted steel	55.00	51.50	58.00	60.00	58.00	63.00
6100 ton steel beams and shapes	48.00	45.00	52.00	53.00	55.00	57.00
950 ton steel rods and bars	50.00	35.00	60.00	60.00	50.00	50.00
40 ton miscellaneous iron castings	65.00	40.00	80.00	70.00	50.00	50.00
1 ton miscellaneous iron furnishings	70.00	90.00	110.00	100.00	50.00	50.00
200 special wire forms	.10	.06	.11	.25	.15	.10
14,200 lin.ft. 1¼-in. seasoned oak or ash hand rail	.40	.15	.20	.25	.50	.50
310 lin.ft. 1¼-in. galvanized iron pipe railings	.40	1.25	1.15	.50	.70	1.50
8300 sq.ft. steel gratings for ventilation, including frames	1.50	1.10	1.50	1.20	1.50	1.50
890 sq.ft. vault lights	1.40	1.00	1.40	1.10	1.25	1.50
40 sq.yd. sidewalk restored, including curbs	1.75	.75	1.00	4.00	2.00	2.00
50 sq.yd. roadway restored (macadam)	1.25	.30	.75	2.00	1.75	1.50
1955 sq.yd. roadway restored (asphalt)	2.65	.75	2.50	2.00	2.50	2.50
6660 sq.yd. roadway restored (granite block)	1.80	.30	2.35	.02	3.50	2.50
180 sq.yd. roadway restored (Belgian block)	2.25	.30	1.10	2.50	2.50	.75
540 sq.yd. roadway restored (asphalt block)	3.00	.30	2.50	2.00	2.50	2.55
100 lin.ft. new Bluestone curb	1.00	.60	1.10	1.20	1.50	1.00
100 lin.ft. new 8-in granite	1.25	1.20	1.35	2.20	1.75	2.00
50 sq.yd. roadway restored (brick pavement)	2.25	1.80	2.50	2.50	2.50	3.00
25,000 sq.yd. roadway restored macadam and asphalt bound	1.50	.35	1.25	1.50	1.00	1.50
1690 sq.yd. park surface restored	1.50	.50	.50	1.00	2.00	1.00
4600 lin.ft. ¾-in. w.i. electric conduits	.12	.20	.20	40	.40	.20
625 lin.ft. 1½-in. w.i. electric conduits	.25	.31	.30	30	.50	.30
675 lin.ft. 2-in. w.i. electric conduits	.30	.45	.50	30	.60	.40
6075 lin.ft. 1-in. w.i. electric conduits	.18	.29	.25	25	.45	.25
700 c.i. outlet boxes	1.00	1.00	1.25	1.00	.75	1.00
12 c.i. pull boxes	2.00	1.30	5.00	10.00	6.00	5.00
160 lin.ft. 6-in. c.i. pipes and fittings (extra heavy) in stations	1.50	1.00	1.50	1.50	1.50	1.50
125 lin.ft. 3-in. c.i. pipes and fittings (extra heavy) in stations	.90	.70	1.10	1.00	1.00	.75
100 lin.ft. 12-in. vitrified sewer pipe	3.00	3.50	3.00	3.00	3.00	3.25
100 lin.ft. 18-in. vitrified sewer pipe	4.00	4.00	4.00	4.00	4.00	3.75
540 lin.ft. 24-in. vitrified sewer pipe	4.80	5.00	5.50	5.00	4.50	4.50
11 ton c.i. straight sewer pipe	45.00	40.00	60.00	50.00	60.00	40.00
5 ton c.i. special sewer pipe	75.00	80.00	80.00	100.00	80.00	70.00
1030 lin.ft. 3ft., 6 in. x 2 ft., 4 in. egg-shaped sewer brick or concrete	6.20	6.00	10.00	7.00	8.00	5.75
780 lin.ft. 4 ft., 6 in. circular sewer	7.40	9.00	13.00	12.00	10.00	8.65
400 lin.ft. electric overhead trolley	5.00	1.00	10.00	10.00	5.00	5.00
100 lin.ft. 6-in. water pipe	.75	.50	1.00	.80	1.50	1.00
550 lin.ft. 8-in. water pipe	1.00	.60	1.40	1.25	1.75	1.25
100 lin.ft. 36-in. water pipe	4.50	2.00	7.50	10.00	6.00	6.35
10 service connection for water pipes (all sizes)	12.00	20.00	25.00	25.00	25.00	15.00
100 lin.ft. 4-in. gas pipe	.75	.40	.75	.60	1.00	.75
700 lin.ft. 6-in. gas pipe	1.00	.50	1.25	.80	1.25	1.00
150 lin.ft. 8-in. gas pipe	1.20	.60	1.40	.90	1.50	1.25
2840 lin.ft. 12-in. gas pipe	1.75	1.00	2.00	1.70	2.00	1.75
100 lin.ft. 30-in. gas pipe	4.50	2.00	6.75	8.00	3.00	6.00
450 lin.ft. 6-in. w.i. by passing pipe upon or below street service	2.00	2.00	3.00	2.00	3.50	3.00
2435 lin.ft. 12-in. w.i. by passing pipe upon or below street service	3.00	3.20	4.50	3.00	4.00	4.00
300 lin.ft. 12-in. w.i. by passing pipe on trestle	4.00	2.75	6.00	4.00	4.00	4.50
150 lin.ft. 24-in. w.i. by passing pipe on trestle	6.00	3.00	12.00	8.00	7.00	8.00
390 lin.ft. 6-in. w.i. by passing pipe on trestle	2.00	1.75	3.75	3.00	3.50	3.00
600 lin.ft. trestle to support by passing pipes	2.00	2.25	5.00	2.00	1.50	3.50
10 service connection for gas pipes (all sizes)	15.00	20.00	20.00	30.00	25.00	10.00
10 ton new c.i. hub and spigot pipe (straight)	35.00	40.00	60.00	40.00	30.00	35.00
10 ton new c.i. hub and spigot pipe (special)	70.00	70.00	95.00	80.00	60.00	65.00
3300 duct ft. electric ducts and conduits	.50	.40	.50	.75	1.00	.50
1300 lin.ft. 2-in. Edison w.i. electric ducts and conduits	.45	.50	.70	.65	1.00	1.25
300 lin.ft. 2¼-in. Edison w.i. electric ducts and conduits	.50	.60	.85	.70	1.00	1.50
100 lin.ft. 3-in. Edison w.i. electric ducts and conduits	.60	.70	1.10	.75	1.00	1.75
10 service connection for electric ducts	15.00	20.00	25.00	25.00	50.00	15.00
600 duct ft. wooden electric ducts and conduits	.50	.30	.45	.50	1.00	.60
Extended totals	$3,237,046	$2,414,460	$2,438,618	$2,441,221	$2,541,136	$3,196,207

(Continued from page 103)

constructed under a former contract) on the State Arsenal Grounds, at 18th and Herr St., Harrisburg. The Board has revised the plans. Samuel B. Rambo, Capitol Bldg., is Supt.

✚Baltimore, Md.—The B. F. BENNETT BUILDING CO., 23 South Howard St., Baltimore, has been awarded the contract for the construction of a two-story addition and alterations to the Union Square M. E. Church, Calhoun and Lombard St. Haskell & Barnes, 301 North Charles St., is Arch.

Meridian, Miss.—At an election held July 23 the citizens voted in favor of the question of issuing $40,000 in bonds. The proceeds will be used for the construction of a city hall and jail.

Hornbeck, La.—At an election held July 21 the citizens voted in favor of issuing $40,000 in bonds. The proceeds will be used for the construction of a school.

✚Louisville, Ky.—The contract for the construction of a four-story, 116x154-ft. mercantile building on Fourth St., for the Speed Realty Co., has been awarded to the ALFRED STRUCK CO., Louisville. Loomis & Hartman, 51 Todd Bldg., is Arch. Noted July 8.

Cleveland, Ohio—Preliminary plans have been prepared by Hubbell & Benes, Arch., 4500 Euclid Ave., for the construction of a 112x290-ft. auditorium and lodge building at 3515 Euclid Ave. for the Al Koran Temple, Nobbles of the Mystic Shrine. The estimated cost is $200,000. Noted Dec. 31.

Newburg, Ohio—(Cleveland post office)—The Board of Administration, Newburg State Hospital, plans the construction of two additions to the hospital. Estimated cost, $50,000.

Springfield, Ohio—The Link Hotel Co. will construct a six-story 99x120-ft. hotel at Main and Limestone St. Estimated cost, $500,000. A. C. Link, J. B. Cartmell, Constantine Link and others are interested.

Tiffin, Ohio—The Pennsylvania R.R., the Baltimore & Ohio R.R., and the Cleveland, Cincinnati, Chicago & St. Louis Ry. plan to construct a Union Station at Tiffin.

Woodsfield, Ohio—Bids will be received until noon, Aug. 26, by F. W. Pollack, Clk., Bd. of Education, for the construction of a fireproof high school. Howard & Merriam, 8 East Broad St., Columbus, is Arch. Noted May 27.

✚Youngstown, Ohio—The contract for the construction of a hospital near the main south entrance to the Youngstown Sheet & Tube Co. has been awarded to HELLER BROS., Youngstown. Estimated cost, $75,000. C. F. Owsley is Arch. The company also plans the construction of a six-story brick office building and a modern laboratory. The estimated cost of both is $500,000.

Brazil, Ind.—The School Board has purchased a site at North Forest Ave. and Kruzan St. upon which to construct a high school. The estimated cost is $80,000.

✚Marion, Ind.—The Board of Directors of the Grant County Hospital Association has awarded the contract for the construction of a three-story modern hospital building to BARLEY & BOWMAN, Marion.

✚Muncie, Ind.—The contract for the construction of an office building for Ball Bros. Mfg. Co. has been awarded to CHARLES MORROW. Estimated cost, $75,000. Noted July 22.

Detroit, Mich.—Bids will be received until 4:15 p.m., Aug. 10, by Charles A. Gadd, Secy., Bd. of Education, 50 Broadway, for the construction of a 20-room school at Montclair and Meadowbrook Ave. Noted Feb. 4.

Chicago, Ill.—Wilkin J. Kohn, Chicago, plans to construct a 36-apartment building at Albany Ave. and Blaine Pl. The estimated cost is $110,000.

Chicago, Ill.—Henry L. Newhouse, Arch., 4630 Prairie Ave., is preparing plans for the construction of a ten-story hotel with a four-story 105x150-ft. wing at Grand Blvd. and 51st St. The estimated cost is $1,400,000. Work will soon begin on the wing.

Chicago, Ill.—A site has been purchased at Grand and Oakwood Blvd. by Thomas A. Collins, 133 West Washington St. for the construction of an apartment house. The estimated cost is $100,000.

✚Appleton, Wis.—The HACKWORTHY CONSTRUCTION CO., 814 College Ave., Appleton, has been awarded the contract for the construction of a two-story bank building for the Citizens National Bank. Cooledge & Hodgson, 134 South La Salle St., Chicago, Ill., is Arch. Estimated cost, $65,000. Noted June 17 and July 29.

Milwaukee, Wis.—Martin Tullgren & Son, Arch., Manhattan Bldg., is preparing plans for the construction of a four-story 90x150-ft. brick and concrete building at 1131 Sycamore St. for St. Catherine's Home for Working Girls. The estimated cost is $85,000. Noted July 22.

✚Superior, Wis.—The general contract for the construction of an orphan asylum for the Catholic Diocese of Superior, at Superior, has been awarded to TOMILSON & EGAN, Ashland, at $101,431. Noted Apr. 15 and July 1.

Forest City, Iowa—(Official)—Bids will be received until 2 p.m., Aug. 25, by H. R. Irish, Pres., of the Independent School District, for the construction of a high and grade school. Alban & Lockhardt, 347 Endicott Bldg., St. Paul, Minn., is Arch. Noted June 10 and July 8.

Crosby, Minn.—An election was held Aug. 2 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of a school.

✚Duluth, Minn—The contract for the construction of an office building and a laboratory for the Minnesota Steel Co. has been awarded to the LOUNSBERRY-McLEOD CO., Duluth. Estimated cost, $100,000.

Fowler, Kan.—Bids will be received until Aug. 15 for the construction of a one- and two-story, 75x200-ft. brick bank and store building for the State Bank of Fowler. The estimated cost is $40,000.

Laramie, Wyo.—Bids will be received until noon, Aug. 10, by F. S. Burrage, Secy., Bd. of Trustees of the University of Wyoming, for the construction of a dormitory for the women on the campus. William Du Bois, 1614 Capitol Ave., Cheyenne, is Arch.

✚Lewiston, Mont.—STANTON & SMITH, Lewiston, at $45,787, has been awarded the contract for the construction of a church on Brooks Island, at Main St. Link & Haire, 413 Stapleton Blk., Billings, is Arch. Noted Apr. 29.

Warmspring, Mont.—The State of Montana is considering the construction of an asylum at Warmsprings. The estimated cost is $80,000.

Carthage, Mo.—An election will be held Sept. 14 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of a sanitarium for the treatment of tubercular patients.

Dodson, Mo.—The Hillcrest Country Club plans to construct a clubhouse at 81st and Hickman Mill Rd. W. M. Beebe, 1012 East Armour Blvd., Kansas City, is Pres. Estimated cost, $40,000.

Kansas City, Mo.—Plans have been prepared by Owen & Payson, Arch., 713 Scarritt Bldg., for the construction of a church at 5137 Main St. for the Church of Visitation. The estimated cost is $50,000.

✚Kansas City, Mo.—The contract for the construction of a seven-story reinforced concrete building, to be known as the Ridge Arcade, at 916-18 Walnut St. for the Ridge Estate, New Ridge Bldg., has been awarded to the GEORGE A. FULLER CONSTRUCTION CO., 2218 Grand Ave., Kansas City. Estimated cost, $100,000. Smith, Rea & Lovitt, 601 Finance Bldg., is Arch. Noted July 1.

✚Kansas City, Mo.—The contract for the [illegible]truction of a six-story, 70x117-ft. reinforced-concrete buil[illegible] at 201 East 22nd St., for the Morbros Investment Co[illegible]as been awarded to AIKEN & THAYER. John W. McK[illegible]e, 1922 Gloyd Bldg., is Arch. Noted July 22.

Kansas City, Mo.—Plans have been prepared by [illegible]th, Rea & Lovitt, Arch., 602 Finance Bldg., for the const[illegible]on of a three-story fireproof building to be known as Ho[illegible] Rieger, at 1922 Main St. The estimated cost is $40,000.

✚Kansas City, Mo.—HARVEY STIVERS, 2447 [illegible]st Ave., Kansas City, has been awarded the contract for th[illegible]onstruction of a seven-story, 49x105-ft. business building [illegible] 1533-35 Walnut St. for W. F. Hall and F. G. Crowell. J. [illegible] Sunderland is Arch. Estimated cost, $75,000. Noted July [illegible].

Palestine, Tex.—The City Commission has co[illegible]missioned Sanguinet, Staats & Gottleib, Arch., 624 First Nati[illegible]al Bank Bldg., Houston, to prepare plans for the construction [illegible] of a high school. The estimated cost is $100,000. Noted July [illegible].

San Diego, Tex.—(Official)—The Commissioners [illegible] Duval County have cancelled the election which was to [illegible]ave been held July 20 to vote on the question of issuing $[illegible]00,000 in bonds for the construction of a courthouse. Charles Meitl, is Secy. of the San Diego Commercial Club. Noted July 1.

✚Enid, Okla.—WELLER & REARDON, Enid, at $[illegible],000, has been awarded the contract for the construction of the State School for Feeble Minded. R. W. Shaw is Arch.

Norman, Okla.—The State Board of Affairs has approved and accepted plans prepared by Hawk & Parr, Arch., Security Bldg., Oklahoma, for the construction of the Science Hall at the University of Oklahoma. The Legislature has appropriated $100,000 for this work. Stratton D. Brooks is Pres. of the university.

Perry, Okla.—Bids will soon be received for the construction of a four-story, 76x98-ft. courthouse. The estimated cost is $100,000. W. T. Faris is County Clk. and J. W. Hawk, Oklahoma, is Arch. Noted May 27.

✚Vinita, Okla.—The contract for the construction of a three-story brick and reinforced-concrete building at the State Hospital for the Insane has been awarded to the KREIP'KESCHAFER CONSTRUCTION CO., El Reno. Estimated cost, $50,000. Charles W. Dawson, 412 Iowa Bldg., Muskogee, is Arch.

Las Cruces, N. M.—Plans are being prepared by Trost & Trost, Box 271, El Paso, Tex., for the construction of a two-story hotel to be known as Hotel Hidalgo. The estimated cost is $65,000.

Salt Lake City, Utah—The Fraternal Order of Eagles, Salt Lake Aerie No. 67, plan to construct a three-story, brick clubhouse at Fourth South and West Temple St. N. Edward Liljenberg, 402 Newhouse Bldg., is Arch. The estimated cost is $50,000.

Miami, Ariz.—Preliminary plans have been prepared by Trost & Trost, Arch., Box 271, El Paso, Tex., for the construction of a three-story brick and reinforced-concrete hotel. The estimated cost is $100,000.

Grand Mound, Wash.—Bids will soon be received by the State Board of Control, Olympia, for the construction of a building at the State School for Girls. The estimated cost is $60,000. Watson Vernon, 1 Gabrielson & Holmer Bldg., Aberdeen, is Arch. Noted July 29.

Medical Lake, Wash.—Julius A. Zittel, Arch., 507 Jamieson Bldg., Spokane, has prepared plans for the construction of a group of buildings for the Institute of the Feeble Minded. The group will include an administration building, custodial building, two ward buildings, power house and laundry. Estimated cost, $292,000.

✚Seattle, Wash.—The contract for the construction of an 11-story 90x110-ft. fireproof office building at Third Ave. and Stewart St. for the Washington Securities Co., has been awarded to M. J. HURSON CO., Globe Bldg., Seattle. Estimated cost, $400,000.

Sedro Woolley, Wash.—Bids are being received by the State Board of Control, Olympia, for the construction of reinforced-concrete ward buildings and an auditorium at the Northern Hospital for the Insane. The estimated cost is $150,000. Heath & Gove, National Realty Bldg., Tacoma, is Arch.

Los Angeles, Calif.—Work will soon begin on the construction of a seven-story, 60x80-ft. addition at Olive and Sixth St. for the Pacific Mutual Life Insurance Co. of California. The estimated cost is $200,000. Col. D. Moore is Secy. Noted June 24.

Santa Barbara, Calif.—Palmer, Hornbostel & Jones, Arch., 63 William St., New York, N. Y., has been commissioned to prepare plans for the construction of a Carnegie Library. The estimated cost is $50,000. Francis W. Wilson, 717½ State St., Santa Barbara, is Superv. Arch.

San Pedro, Calif.—The Cresmer Mfg. Co., Riverside, at $92,000, submitted the lowest bid on the general contract for the construction of a brick and concrete school at 307 Fifth St. Joseph Bell De Remer, 622 Title Insurance Bldg., Los Angeles, is Arch. Noted Mar. 11.

Visalia, Calif.—Bids will be received until Aug. 16 by the Board of Supervisors of Tulare County for the construction of a steel and concrete bridge over the Kings River at Kingsbug, the estimated cost of which is $18,000.

Montreal, Que.—Bids are being received for the construction of a motion picture theater for the Independent Amusement Co. Ltd. The estimated cost is $100,000. D. J. Crighton, Jacobs Bldg., is Arch.

The Snare & Triest Co., of New York City, announced on July 29 its purchase of the business, good will, plans and records of R. P. & J. H. Staats Inc., a firm which has for 27 years been prominent in the construction of piers, docks and harbor work in New York and vicinity. R. P. Staats, the senior member of the firm retires from active business but Mr. J. H. Staat has purchased an interest in the Snare & Triest Co., and will be Vice-President of that organization.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

JULY BUILDING RETURNS

The steady gain recorded in the building industry in the Eastern States continued during July. The total operations in 11 cities were practically the same as in the corresponding month last year. For the first seven months there was a gain of about 4%. From now on the results will be more favorable.

In the Central States there was a decrease of slightly more than 10% in the 18 cities. This was due to the sharp drop in Chicago, where there have been labor troubles. A falling off of $1,000,000 in Houston was the cause of a decrease from $6,028,000 last year to $4,925,000 this year.

In the Western States there was a sharp falling off in the Northwest due to the stagnation in the lumber industry. In the following table is given the estimated cost of contemplated buildings from plans filed with the various building inspectors:

EASTERN STATES

	Month of July		First Seven Months of Year	
	1915	1914	1915	1914
Baltimore, Md.	$2,099,989	$1,577,601	.....	.....
Boston, Mass.	804,841	298,500	$14,872,145	$12,895,350
Bridgeport, Conn.	1,061,290	313,945	5,271,662	2,486,083
Buffalo, N. Y.	1,494,000	985,000	7,091,000	7,549,006
Hartford, Conn.	441,767	311,985	3,205,694	2,685,356
Hoboken, N. J.	48,078	166,100	544,398	728,002
Jersey City, N. J.	345,913	460,592	3,146,649	2,417,845
Newark, N. J.	584,703	1,172,043	5,225,669	5,244,280
New York, N. Y.				
Bronx	1,874,000	2,123,465	17,771,500	16,076,068
Brooklyn	3,682,765	3,314,700	15,950,010	25,918,850
Manhattan	4,093,080	4,605,305	43,731,800	30,882,090
Queens	2,438,065	2,339,662	12,453,611	13,139,829
Philadelphia, Penn.	3,659,940	4,661,850	22,726,330	25,767,570
Rochester, N. Y.	762,123	1,067,101	5,519,791	6,095,625
Total	$23,390,554	$23,397,849	$157,510,259	$151,888,954

CENTRAL STATES

	Month of July		First Seven Months of Year	
	1915	1914	1915	1914
Akron, Ohio	$1,133,395	$382,015	$2,650,085	$2,355,085
Chicago, Ill.	6,455,630	9,148,760	46,728,680	54,007,960
Cincinnati, Ohio	1,056,625	1,055,230	6,724,289	6,044,000
Cleveland, Ohio	2,319,280	2,532,050	20,546,159	17,221,415
Columbus, Ohio	504,095	503,351	3,053,955	3,724,206
Des Moines, Iowa	181,405	140,690	1,074,520	1,158,364
Duluth, Minn.	201,422	266,259	1,571,910	1,946,841
Evansville, Ind.	34,080	128,645	858,459	946,814
Indianapolis, Ind.	598,078	1,140,000	3,858,824	6,096,405
Kansas City, Kan.	77,177	188,005	617,968	779,125
Kansas City, Mo.	418,060	1,012,055	6,334,495	8,012,930
Milwaukee, Wis.	916,625	887,889	5,673,485	6,398,666
Minneapolis, Minn.	1,474,256	1,326,095	9,200,151	11,099,690
Omaha, Neb.	556,780	402,605	3,211,210	3,269,298
Peoria, Ill.	178,500	193,100	.....	.....
St. Louis, Mo.	615,148	1,287,859	7,069,851	9,105,911
St. Paul, Minn.	770,018	1,053,100	6,398,570	8,971,788
Toledo, Ohio	534,012	569,579	4,564,216	4,413,217
Total	$19,024,586	$22,217,287	$127,136,827	$145,551,711

SOUTHERN STATES

	Month of July		First Seven Months of Year	
	1915	1914	1915	1914
Atlanta, Ga.	$613,146	$495,902	$2,744,837	$3,495,699
Birmingham, Ala.	223,987	468,385	.....	.....
Dallas, Tex.	656,124	941,580	2,180,639	4,425,143
Houston, Tex.	149,343	1,054,911	988,005	2,878,397
Louisville, Ky.	548,740	482,390	2,336,835	3,040,245
Memphis, Tenn.	245,285	333,006	1,746,778	2,347,888
New Orleans, La.	513,510	505,392	1,869,200	1,933,382
Richmond, Va.	328,667	461,949	2,063,329	2,561,770
Tampa, Fla.	222,590	92,545	.....	.....
Washington, D. C.	1,424,207	1,192,883	6,664,366	6,820,702
Total	$4,925,599	$6,028,943	$18,593,989	$27,503,226

WESTERN STATES

	Month of July		First Seven Months of Year	
	1915	1914	1915	1914
Oakland, Calif.	$410,322	$430,665	$2,793,070	$2,869,170
Portland, Ore.	373,375	870,745	3,013,135	5,051,655
Salt Lake City, Utah	174,550	238,750	1,269,891	1,635,064
San Francisco, Calif.	1,500,206	2,068,537	8,066,473	22,746,212
San Diego, Calif.	57,790	579,558	714,177	2,366,238
Seattle, Wash.	231,095	2,520,590	3,505,205	8,404,445
Spokane, Wash.	66,263	229,635	771,134	775,297
Tacoma, Wash.	31,161	884,649	494,675	1,572,747
Total	$2,804,762	$7,823,129	$20,627,760	$45,420,828

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry. Co.—According to press reports this company will soon start work on the extension of its lines in Methuen. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr. Noted May 6.

Connecticut—Connecticut Co.—The Public Utilities Commission of Connecticut has granted this company permission to extend its lines in New Britain from Main to Myrtle St., Grove, Broad, Washington St. and Farmington and Commonwealth Ave., about 7200 ft. F. L. Beardsley, New Britain, is Supt. Noted July 8.

New Jersey—Pennsylvania R.R.—The Board of Public Utility Commissioners has approved a bond issue of $65,000,000 of the Pennsylvania R.R., to be used for the improvement of the company's lines and system in New Jersey. A. C. Shand, Philadelphia, is Ch. Engr.

Maryland—Baltimore & Ohio R.R. Co.—According to press reports this company plans to construct a railroad from Hagerstown to Security, to the plant of the Security Cement & Lime Co. The estimated cost is $100,000. F. L. Stuart, Baltimore, is Ch. Engr.

Maryland—United Ry. & Electric Co.—This company will extend its double track line on Columbus Ave., Gwynn's Falls, (Baltimore), the present terminus, to Lansdowne, Md., a distance of 2100 ft. Mason D. Pratt, Baltimore, is Ch. Engr.

✚**West Virginia**—Western Maryland R.R.—This company has awarded the contract for the construction of the Helen's Run extension to O. L. ANDERSON & BROS., INC., Altoona, Penn., at $400,000. H. R. Pratt, Baltimore, is Ch. Engr.

North Carolina—Virginia-Carolina Ry.—Plans are being considered by this company for the extension of its line from Todd to Boone, N. C., about 16 miles. G. D. Johnson, Abington, Va., is Pres. and Gen. Mgr.

North Carolina—Southern Ry.—Seaboard Air Line Ry.—Press reports state that these companies plan to extend their lines to Rutherfordton, N. C. W. D. Faucette, Norfolk, Va., is Ch. Engr., Seaboard Air Line Ry., and B. Herman, Washington, D. C., is Ch. Engr., Southern Ry.

North Carolina—Statesville Air Line R.R.—Bonds for $1,250,000 will be sold. The proceeds will be used to complete the line from Statesville to Mt. Airy. D. M. Ausley is Treas. and Gen. Mgr.

South Carolina—Columbia, Newberry & Laurens R.R.—This company plans to construct a line from Newberry southward via Saluda and Edgefield, S. C., to Augusta, Ga., a distance of 65 miles. J. F. Livingston, Columbia, is Pres.

South Carolina—Carolina, Atlantic & Western Ry.—This company will, according to press reports, start work about Sept. 1 on the construction of its proposed extension from Charleston, S. C., to Savannah, Ga., about 85 miles. William Moncure, Raleigh, N. C., is Ch. Engr. Noted Feb. 4 and June 17.

South Carolina—Atlantic Coast Line R.R.—Plans are being considered by this company for the construction of a railway from St. Stephens to Yemassee via Ridgeville and Walterboro, S. C., about 75 miles. E. P. Pleasants, Wilmington, N. C., is Ch. Engr.

Florida—A franchise has been granted to E. W. Parker, Tampa, for the construction of an electric railway in Clearwater, Fla. Noted Aug. 5.

Mississippi—Jackson & Eastern Ry.—This company has been incorporated to construct a steam or electric railway from Jackson, Miss., to Union ,Miss. S. A. Neville, R. W. Harriss and C. J. Currie, Meridian, Miss., are interested.

Tennessee—Chattanooga Traction Co.—This company plans to extend its lines from Chattanooga to Hixson. W. T. Jones, Chattanooga, is Vice-Pres. and Gen. Mgr. Noted Jan. 23.

Ohio—Cincinnati, Lawrenceburg & Aurora Electric St. R.R. Co.—This company plans to construct an electric railway from Anderson's Ferry, (Cincinnati) the present terminus, through the business section of Cincinnati. C. E. Hoover, Cincinnati, is Treas. and Gen. Mgr.

Ohio—Cleveland Ry.—This company will extend its line on East 79th St. from Kensman Rd. to Broadway Ave., Cleveland. George L. Radcliffe, Cleveland, is Gen. Mgr.

Ohio—Dayton & St. Mary's Traction Co.—This company has been incorporated to construct an electric railway from Dayton to St. Marys, Ohio. Dennis Dwyer, Dayton, Julius Boesel, Thomas J. Brennan and C. V. Ruenke are interested. Noted July 15.

Michigan—The Council has been petitioned for a franchise to construct an electric railway from Mt. Clemons to Armada. A. Jacobson, Detroit, is interested.

Illinois—Kankakee & Urbana Traction Co.—Plans are being considered by this company for the extension of its line from Ludlow to Paxton, Ill. William J. Laffell, Urbana, is Gen. Mgr. and Pur. Agt.

South Dakota—Electric Short Line Ry. Co.—This company plans to construct about 45 miles of new line at an estimated cost of $440,000. De Koven Hunter, Minneapolis, is Gen. Mgr.

Missouri—Chicago, Burlington & Quincy R.R.—A franchise has been granted this company to extend its lines along First, Deer and Elk St., St. Joseph, and along Florence Rd. and the intervening alleys. W. L. Breckenridge, Chicago, Ill., is Ch. Engr.

Arkansas—According to press reports work will soon be started on the construction of an electric railway from Columbus to Washington, Ark., about seven miles. Rufus S. Stout, Pine Bluff, is interested. Noted May 6.

Texas—Northern Texas Traction Co.—The City Commission has authorized this company to extend its electric railway on Fairmont Ave. and Willing St., Ft. Worth, Tex. George H. Clifford, Ft. Worth, is Vice-Pres. and Gen. Mgr.

Texas—Preliminary arrangements are being made and contracts will soon be awarded for the construction of the proposed railway from Rockport to Seymour, Tex., about 350 miles. Edward Cowper-Thwaite, London, Eng., is interested.

Oklahoma—La Kemp & Northwestern Ry. Co.—This company has been incorporated to construct an electric railway from Gage northwest to Ivanhoe, about 25 miles. The incorporators are I. K. Edwards, George C. Warlick, J. W. Steffen, W. B. Lehman and E. W. Lehman all of La Kemp.

Oklahoma—Tulsa—Sand Springs Interurban Ry. Co.—This company plans to extend its line to the coal mines, about eight miles. W. B. Craig, Tulsa, is Gen. Mgr.

Utah—A petition has been presented to the Council by Harry S. Joseph asking for a franchise to construct an electric railway in Bingham Canyon to connect with the Salt Lake & Utah R.R.

✚Arizona—Tucson, Cornelia & Gila Bend R.R.—This company has awarded the contract to J. H. MAXEY, Yuma, Ariz., for all culvert and trestle work and general construction on its railway from Gila Bend to a point near Ajo, about 38 miles. Noted June 3.

Washington—C. J. Erickson, Downs Block, Seattle, plans the construction of a standard gage railroad from his mills at MacDonald Creek, near Sequim, Wash., into timber holdings, a distance of eight miles.

✚Oregon—Oregon-Washington R.R. & Navigation Co.—This company has awarded the contract for the construction of an extension to its line from Riverside to Crane Creek Gap, Ore., about 30 miles, to TWOHY BROS., Portland. Estimated cost, $1,500,000. J. R. Holman, Portland, Ore., is Ch. Engr. Noted July 1.

Oregon—The Du Bois Lumber Co. will, according to press reports, construct a railway from Astoria, Ore., to its timber lands in Clatsop and Tillamook Counties.

✚Oregon—Roseburg & Eastern Ry. Co.—This company has awarded the contract for the construction of a railway from Roseburg to the boundary of the Cascade National Forest, about 30 miles, to KENDALL BROS., Pittsburgh, Penn.

✚New Brunswick—Canadian Government Ry.—This company has awarded a contract to the JOHN W. McMANUS CO., LTD., Memramcook, N. B., for the construction of a spur line of railway from the Intercolonial Ry. to Bathurst, N. B.

Manitoba—Plans are being prepared for the construction of a gasoline-operated street car line from Winnipeg to Transcona, about ten miles. H. W. Adcock, Winnipeg, is interested. Noted July 1.

LIGHT, HEAT AND POWER

North Gorham, Maine—The Cumberland County Power & Light Co., Portland, plans to construct a new dam, about 300 ft. long, across the Presumpscot River. The estimated cost is $40,000. The dam will develop about 2700 hp. A. H. Ford, Portland, is Gen. Mgr.

Milton, N. H.—It is reported that a company to be known as the Milton Electric Co. is now being organized. The old Worster Mill site has been secured for the location of the power house. The city is said to have entered into a contract for street-lighting. J. B. Giguere is interested.

Brockton, Mass.—Local citizens have filed a petition with the Board of Aldermen asking for the appointment of a commission to investigate the feasibility and probable cost of the establishment of a municipal electric-light plant.

Holyoke, Mass.—The Board of Public Works has voted the sum of $10,000 for the construction of a boiler house for the new isolation hospital now in course of construction. W. J. Howes is Arch.

Medfield, Mass.—(Official)—Bids will be received until noon, Aug. 19, by the State Board of Insanity, Room 36, State House, Boston, for heating, plumbing and electrical work in a new dispensary building at the State Asylum. James H. Ritchie, 8 Beacon St., Boston, is Arch. Michael J. O'Meara, M. D., is Chn. Bd. of Insanity.

Westfield, Mass.—At a recent town meeting, the sum of $25,000 was appropriated for extensions and improvements to the municipal gas and electric plant.

✚Hartford, Conn.—The Hartford Electric Light Co. has awarded the contract for the construction of an addition to its power station at Dutch Point to the STONE & WEBSTER ENGINEERING CORPORATION, Boston, at about $35,000. The building will be 28x44 ft., three stories.

Lestershire, N. Y.—Endicott, Johnson & Co., manufacturer of boots and shoes, plans to double the output of its main power plant in Lestershire, including the installation of a 2000-kw. steam turbine.

Oswego, N. Y.—The city has appointed a committee to engage an engineer to prepare plans and supervise the development of a waterpower on the Oswego River at High Dam on a site belonging to the City of Oswego.

Bloomfield, N. J.—Press reports state that the Westinghouse Lamp Co. contemplates the construction of an addition to its power house in the Watsessing section.

Kinston, N. C.—It is reported that the City Council contemplates improving the municipal electric-light plant at an estimated cost of $40,000. J. E. Weyher is Mgr. and Supt.

Springfield, Tenn.—The city has sold bonds amounting to $15,000, the proceeds of which will be used for building an addition to the municipal power plant. G. B. Shawver is Supt.

Dawsonsprings, Ky.—It is reported that a company is being organized for the purpose of establishing an electric-light and power plant. It will be known as the Dawson Light & Power Co. Brent Hart is interested.

Dayton, Ohio—It is reported that the Board of Commissioners of Montgomery County has adopted a resolution providing for the construction of a new power house and the installation of new boilers at the Montgomery County Children's Home. The estimated cost of the improvements is $[illegible].

Delaware, Ohio—(Official)—Bids will be received until noon, Aug. 26, by W. V. Aldrich, Audr. of Delaware County, for installing a heating plant under the county jail, connecting the same to the courthouse, and furnishing and installing the proper radiation.

Spencerville, Ohio—(Official)—Bids will be received until noon, Aug. 20, by the Village Board of Public Affairs for the construction of an addition to the power station, and for furnishing steam and electrical equipment for the same. Charles S. Fryer is Clk. of Bd. The Rae-Woulfe Engineering Co., Engineers' Bldg., Cleveland, is Engr.

Corunna, Mich.—It is reported that the Corunna plant of the Consumers' Power Co., Owosso, was recently destroyed by fire at a loss of about $15,000. C. W. Tippy, Jackson, is Gen. Mgr. of the Consumers' Power Co.

Wyandotte, Mich.—The City Commission has approved of an estimated expenditure of $29,625 for proposed improvements to the municipal electric-light plant. A. S. McClenehan is Supt. of the plant.

Rockford, Ill.—The City Council has instructed Ross P. Beckstrom, Supt. of Water-Works, to investigate and report on the cost of installing a municipal electric-light plant, which will also supply power for the operation of the city pumping station.

Upper Alton, Ill.—Bids will be received until 3 p.m., Aug. 23, by Frank D. Whipp, Fiscal Supvr., Springfield, for the construction of a power house at the Alton State Hospital.

Hardwick, Minn.—Bids will be received until Aug. 17 by the Village Recorder for the construction of an electric transmission line and distribution system for the Village of Hardwick. Earle D. Jackson, Capitol Bank Bldg., St. Paul, is Consult. Engr.

Minneapolis, Minn.—Bids will be received until Aug. 20 by G. A. Sandberg, Pur. Officer of the University of Minnesota, Minneapolis, for the installation of two 350-hp. return water-tube boilers complete with stokers.

Wheaton, Minn.—Bids will be received until Aug. 16 by the Board of Education, Wheaton, for plumbing, heating, ventilating and electric wiring of a gymnasium and manual training building. E. F. Broomhall, 710 Alworth Bldg., Duluth, is Arch.

✚Larned, Kan.—The City Council has awarded contracts for the construction of an electric-light plant and pumping station as follows: Construction of building to McCOY & TAYLOR, Ft. Scott, Kan., at $12,120; for motor pumps at $4115, and engines, generators, boilers and conduits at $22,055 to the MERKLE-HINES MACHINERY CO., Scarritt Bldg., Kansas City, Mo.; poles, to LARSON BROS., Larned, at $4318; switchboard and electrical equipment to McCOY & TAYLOR at $7496; hardware and transformers to the UNITED ELECTRIC CO., 120 West 13th St., Kansas City, Mo., at $15,808; chimney stack to the HEINICKE CHIMNEY CO., 147 Fourth Ave., New York, N. Y. Noted July 15.

Franklin, Neb.—At a recent election the citizens voted in favor of issuing $7000 in bonds for the purpose of installing an electric-light plant.

Glasgow, Mont.—A special election will be held Oct. 4 to vote on the question of issuing $18,000 in bonds, the proceeds of which will be used for extending the present electric-lighting system. H. D. Palmer is City Clk.

San Angelo, Tex.—It is reported that the San Angelo Water, Light & Power Co. will soon advertise for bids for power plant equipment to cost about $50,000. W. A. Guthrie is Vice-Pres., Mgr. and Cont. Agt.

Albion, Idaho—A special election will be held Aug. 23 to vote for a bond issue of $8000, the proceeds of which will be used for the installation of a municipal electric-light plant.

Redding, Calif.—The plant of the Redding Electric Light & Power Co., a subsidiary of the Northern California Power Co., San Francisco, was destroyed by fire recently. Loss, $8000.

Sherbrooke, Que.—The City Council has decided to build a municipal gas plant to cost about $70,000. Thomas Tremblay is Engr.

Athens, Ont.—The City Council has instructed A. M. Lee to have plans prepared for the installation of a new electric-light and power plant. The estimated cost is $25,000.

Madoc, Ont.—It is reported that the Madoc Mining Co. will soon begin the construction of a brick and concrete power house at Goudreau, Ont. The estimated cost is $75,000.

Palmerston, Ont.—The City Council has instructed H. Hyndman to prepare plans and ask for bids for a new hydro-electric plant and distribution system. The estimated cost is $30,000.

BRIDGES

✚Concord, N. H.—The State Highway Commission has awarded the contract for the construction of the Mosquito Bridge over Winnisquam Lake between the towns of Tilton and Belmont to the UNITED CONSTRUCTION CO., Albany, N. Y., at $46,266. F. E. Everett is Acting Comr. Noted July 15 under Winnisquam, N. H.

✚Montpelier, Vt.—(Official)—The City Council has awarded the contract for the construction of a steel girder bridge with concrete floor at State St. to JAMES E. CASHMAN, Burlington, at $16,805. Five other bids were received. George A. Reed is City Engr. Noted July 29.

✚Boston, Mass.—The Public Works Department has awarded the contract for cleaning and painting the Cambridge Bridge over the Charles River between Boston and Cambridge, to the CONNERS BROS. CO., at $6200. Other bidders were: Albert D. Howlett Co., $9000; Maurice M. Devine, $11,465; Martin A. Feeley, $12,450; George T. Rendle Co., $14,099; D. Dugan & Son, $16,280; W. L. Waples Co., $16,800.

★**Greenwich, N. Y.**—(Official)—Bids will be received until 1 p.m., Aug. 20, by the Towns of Greenwich and Easton, at the office of N. S. Langdon, Greenwich, Washington County, for the construction of three concrete-steel arches over the Battenkill River at Greenwich Village, Middle Falls and at Clarks Mills. The Concrete-Steel Engineering Co., Park Row Bldg., New York, is Engr.-in-Charge. R. S. Skinner is Town Supt. of Greenwich. Jacob Pratt is Town Supt. of Easton.

★✝**Oswego, N. Y.**—(Official)—The County Superintendent of Highways has awarded the contract for the construction of a concrete-steel bridge across the Oswego River at Minetto to LARKIN & SANGSTER, Seneca Falls, at $65,000. Other bidders were: Oswego Construction Co., $92,000; Woolsey Construction Co., $78,000. Noted July 22.

✝**Far Hills, N. J.**—The Board of Chosen Freeholders of Somerset County, Somerville, has awarded the contract for the construction of a concrete bridge over the Raritan River at Far Hills to the J. L. LACOMPT CO., Lakewood, at $10,876. The second lowest bid was that of Hickey & Houghton Co., Raritan, at $11,044.

Raven Rock, N. J.—The Board of Chosen Freeholders of Hunterdon County, Flemington, has decided to replace the covered bridge over Hoffman's Creek at Raven Rock with a new structure. It will be about 100 ft. long with a 20-ft. concrete roadway.

Lebanon, Penn.—Bids will be received until 5 p.m., Aug. 20, by D. M. Sharp, City Clk., for the construction of three reinforced-concrete or steel bridges. T. R. Crowell is City Engr.

★**Media, Penn.**—(Official)—The Commissioners of Delaware County rejected all bids received Aug. 2 for the construction of a bridge over Muckinapatus Creek at Glenolden Ave., Glenolden Borough, Darby Township. The work will be readvertised. Noted July 29.

★**Philadelphia, Penn.**—(Official)—Bids for the construction of four bridges were received by the Department of Public Works on Aug. 2 and 4, as follows: Bridge at Cambria and A St., James D. Dorney, $54,686; T. F. Reilly, $61,700; Carl R. Camp, $51,349; C. P. Bower, $55,500; F. J. Boas, $58,862; M. & J. B. McHugh, $60,300; Peoples Bros., Inc., $56,000; American Paving & Construction Co., $67,500; Richard Walsh & Sons, Inc., $52,675. Holme Ave. Bridge, McNichol Paving & Construction Co., $67,857; J. E. Brenneman, $75,994; Peoples Bros., Inc., $79, 242; Richard Walsh & Sons, Inc., $108,340; Philadelphia Paving Co., $111,421; Day & Zimmermann, $128,214. Whitby Ave. Bridge, F. J. Boas, $34,731; Richard Walsh & Sons, Inc., $41,925; Thomas F. Reilly, $38,815; Monaghan & Losse, $40,569; Carl R. Camp, $35,982. Front St. Bridge, Philadelphia Paving Co., $11,792; Frank Mark Contracting Co., $12,515; Daniel J. Lynch, $12,704; Day & Zimmermann, $19,223; Richard Walsh & Sons, Inc., $12,900; Monaghan & Losse, $19,-740; F. J. Boas, $14,587; William A. Mundy, $15,757. M. L. Cooke is Dir. of Pub. Wks. Noted July 29.

Pittsburgh, Penn.—(Official)—Bids will be received until noon, Aug. 20, by Hyatt M. Cribbs, Controller of Allegheny County, for repairs to trestle approach, steel, street car rails and floor of Bridge No. 6 over the Youghiogheny River. J. G. Chalfant is County Engr.

✝**Sunbury, Penn.**—The Commissioners of Northumberland County have awarded the contract for the construction of a bridge over Mahanoy Creek in East Cameron Township to WHITTAKER & DIEHL, Harrisburg, at $4629.

Uniontown, Penn.—Bids will be received until Aug. 26 by Harry Kisinger, Controller of Fayette County, for constructing abutments and wing walls and repairing several bridges.

Isle of Wight, Va.—It is reported that the Commissioners of Isle of Wight County contemplate the construction of seven new bridges at an estimated cost of $75,000.

Leesburg, Va.—(Official)—The State Highway Commission, Richmond, has awarded the contract for the construction of two bridges in Loudoun County to the LUTEN BRIDGE CO., York, Penn., at $3600 for the two. W. D. Hempstone is Clk. of the Loudoun County Court. Noted July 29.

Stuart, Va.—(Official)—Bids will be received until noon, Aug. 20, by the Clerk of the Circuit Court of Patrick County for the construction of a 90-ft. bridge across the Dan River. G. P. Coleman, Richmond, is State Highway Comr.

★**Wilson, N. C.**—(Official)—Bids will be received until 3 p.m., Aug. 28, by Lawrence Brett, Engr., Bd. of Drainage Comrs., Mattamuskeet Drainage District, for the construction of a single-leaf plate girder Scherzer rolling lift bridge.

St. Francisville, La.—The Police Juries of East and West Feliciana Parishes have appropriated the sum of $24,000 for the construction of a bridge across Thompson Creek on the line between the two parishes.

✝**Calvin, Ky.**—The Fiscal Court of Bell County, Pineville, has awarded a contract for the construction of a bridge across the Cumberland River at Calvin to the VINCENNES BRIDGE CO., Vincennes, Ind., at $7060. The contract for the substructure was awarded to MARTIN GREEN, ROBERT VANBEVER and EDWARD PURSIFULL, all of Pineville, at $2541.

Elizabethtown, Ky.—The Bridge Commission, appointed by the Fiscal Courts of Bullitt County, Shepherdsville and Hardin County, Elizabethtown, has decided to build the new intercounty bridge over the Rolling Fork River at Wooldridge's Ferry. The estimated cost of the bridge is $16,000, of which Hardin County will pay 60%, and Bullitt County the remaindor.

Akron, Ohio—Bids will be received until 11 a.m., Aug. 27, by C. L. Bower, Clk. of Summit County, for building approaches and paving the Louis Young Bridge over the Ohio Canal, Manchester Rd., Coventry Township.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 3, by the Board of Commissioners of Hamilton County for rebuilding a culvert in the Cleves Rd. from Miami Ave., Cleves, to the Blue Rock Pike in Colerain Township. Albert Reinhardt is Clk. of Comrs.

Cleveland, Ohio—Bids will be received until noon, Aug. 18, by the Commissioner of Purchases and Supplies, 511 City Hall, for the construction of two concrete box culverts in the Woodland Hills-Garfield division of East Blvd., south of Kinsman Rd.

✝**Cleveland, Ohio**—The contract for placing a floor on the new Clark Ave. Bridge has been awarded by the Board of Control to EDWARD A. WEILAND, 376 Rockefeller Bldg., Cleveland, at $78,682.

✝**Columbus, Ohio**—The Board of Commissioners of Franklin County has awarded the following contracts for bridge work: Construction of the Eberly Rd. Bridge over Alum Creek, substructure to the FRITZ-RUMER-COOKE-GRANT CO., Columbus, at $9092, superstructure to the CASE-CRANE ENGINEERING CO., at $9271; approaches to the Schrock Bridge to PURDUM & SCHWARTZ at $15,014. Noted July 15.

Delaware, Ohio—(Official)—Bids will be received until noon, Aug. 30, by W. V. Aldrich, Audr. of Delaware County, for the construction of the substructure and superstructure of the Winter St. Bridge.

Hamilton, Ohio—On Aug. 2 the Common Pleas Court permanently enjoined the Commissioners of Butler County from awarding a contract to the A. J. Yawger Co., Indianapolis, Ind., for the construction of the Columbia Bridge at Wood St. The contract price was $96,000. The injunction was made on the grounds that the substructure and superstructure were not divided in the bid, that the specifications permitted a modification of the contract after being signed, and because the bid for the substructure exceeded the estimate. New bids will be asked for this bridge. W. W. Crawford is County Audr. Noted May 20 and July 8.

Hillsboro, Ohio—(Official)—Bids will be received until 11:30 p.m., Sept. 6, by the Board of Commissioners of Highland County for the construction of a steel bridge over Rocky Fork Creek near the County Infirmary. B. O. Pratt is County Surv.

Marion, Ohio—(Official)—Bids will be received until noon, Aug. 18, by the Board of Commissioners of Marion County for reflooring county Bridges Nos. 17, 22 and 23 with creosoted wood block. V. Perle Garfield is Clk. of Comrs.

New Philadelphia, Ohio—Bids will be received until Sept. 1 by the Board of Commissioners of Tuscarawas County for repairing the stone substructure and constructing a new steel superstructure with a 20-ft. roadway, of a bridge over Sugar Creek Falls, Franklin Township. R. H. Nussdorfer is County Audr.

North Randall, Ohio—The Board of Commissioners of Cuyahoga County, Cleveland, has instructed the County Surveyor to prepare plans for the construction of a bridge over the tracks of the Erie R.R. near North Randall. The estimated cost is $40,000.

Ravenna, Ohio—Bids will be received until noon, Aug. 30, by the Board of Commissioners of Portage County for the construction of a 75-ft. steel bridge with concrete or wood block floor over the North Mahoning River in Charlestown Township.

✝**Crown Point, Ind.**—(Official)—The Commissioners of Lake County have awarded the contract for the construction of a Scherzer rolling lift bridge to the PHEE CONSTRUCTION CO., Chicago, Ill., at $76,000; the same company will build a temporary bridge at $3512. Noted July 22.

Washington, Ind.—It is reported that bids will be asked some time in September by the Commissioners of Daviess County for the construction of one 60-ft. steel bridge and four others ranging from 25 to 30 ft. in length. All will have reinforced-concrete abutments and floors. L. S. Core is County Audr. and W. J. Shanks is Surv.

✝**Paris, Ill.**—(Official)—The County Superintendent of Highways of Edgar County has awarded the contract for the construction of a reinforced-concrete bridge over Sugar Creek on the Chicago Rd. to ALAN JAY PARRISH, Paris, at $7600. Other bidders were: East St. Louis Bridge Co., East St. Louis, $8000; Chrisman Contracting Co., Chrisman, $7900; Zimmerly Bridge Co., Paris, $8295. Noted July 29.

Watseka, Ill.—(Official)—Bids will be received until 1:30 p.m., Aug. 18, by Benjamin Jordan, County Supt. of Highways of Iroquois County, for the construction of two reinforced-concrete bridges in Pigeon Grove Township. The estimated cost of the two bridges is $6575.

Orange City, Iowa—Bids will be received until 2 p.m., Sept. 6 (extension of date from Aug. 3), by the Auditor of Sioux County for the construction of a bridge over the Sioux River, on the state line two miles south of Hudson, S. D.

✝**Waukon, Iowa**—(Official)—The Board of Supervisors of Allamakee County has awarded the contract for the construction of reinforced-concrete bridges and culverts to ELT B. FOWLER, Lansing, Iowa, at about $14,000. Noted July 29.

✝**Webster City, Iowa**—The Board of Supervisors of Hamilton County has awarded contracts for bridge construction as follows: A. W. MERRICK, Boone, $11,423 for five bridges; CLINTON BRIDGE WORKS, Clinton, $6607 for three bridges; ALBERT SWANSON, Webster City, $6671 for three bridges. Noted July 8.

Mankato, Minn.—Bids will be received until 2 p.m., Aug. 18, by the Commissioners of Blue Earth County for the construction of a 120-ft. concrete arch in Shelby Township. C. L. Kennedy is County Audr.

Wadena, Minn.—Bids will be received until 2 p.m., Aug. 23, by Eugene Rose, Audr. of Wadena County, for the construction of State Bridge No. 1551 on the county road at Twin Lakes in the Town of Shell River.

Girard, Kan.—Bids will be received until noon, Aug. 18, by the Commissioners of Crawford County for the construction of ten steel or reinforced-concrete bridges. Charles C. Everett is County Clk. Noted July 8 and 22.

✝**Junction City, Kan.**—The contract for two new spans of the North Washington St. Bridge over the Republican River, to replace those washed out by the recent floods, was awarded to the LEAVENWORTH BRIDGE CO., Leavenworth, at about $6000. The spans will be of reinforced concrete.

★**Lawrence, Kan.**—(Official)—Bids will be received until noon, Oct. 6, by Herman Broecker, Clk. of Douglas County, for the construction of a reinforced-concrete bridge over the Kansas River at Lawrence. Hedrick & Cochran, Kansas City, Mo., is Consult. Engr.

Oskaloosa, Kan.—Bids will be received until noon, Aug. 19, by L. P. Sheldon, Clk. of Jefferson County, for the construction of 15 steel and reinforced-concrete bridges, and for the repair of various bridges.

Topeka, Kan.—The lowest bid received by the city for the construction of a reinforced-concrete bridge across Shunganunga Creek at Kansas Ave. and 20th St. was that of Arthur E. Allen, Topeka, at $15,468. Noted July 8.

Fremont, Neb.—Bids will be received until Aug. 24 by John O'Connor, Clk. of Dodge County, for the construction of county bridges during the ensuing year.

St. Paul, Neb.—(Official)—Bids will be received until noon, Sept. 3, by K. D. Bahensky, Clk. of Howard County, St. Paul, for the construction of a high truss steel bridge across the Loup River about two miles south of St. Paul. It will have five 145-ft. spans with a 16-ft. roadway.

Medora, N. D.—Bids will be received until Aug. 23 by the Auditor of Billings County for the construction of a steel bridge on concrete piers over the Little Missouri River at Medora. Noted Apr. 29 and May 13.

✚**Florence, Mont.**—(Official)—The Commissioners of Ravalli County, Hamilton, have awarded the contract for the construction of a bridge across the Bitter Root River to O. E. PEPPARD, Missoula, at $9700. Noted July 29.

Carrollton, Mo.—(Official)—The proposed special election in Carroll County, which was to have been called for the purpose of voting for a bond issue of $250,000 for building new bridges, has been indefinitely postponed. J. W. Hollister is County Clk. Noted July 8.

Greenville, Mo.—(Official)—Bids will be received until 2 p.m., Aug. 18, by A. W. Copeland, Highway Engr. of Wayne County, Greenville, for the construction of a steel bridge across Big Lake Creek on the Greenville-Patterson Rd. near Greenville.

✚**Louisiana, Mo.**—The contract for the construction of a reinforced-concrete bridge across Buffalo Creek has been awarded to the MISSOURI BRIDGE & IRON CO., St. Louis, at $5974. Seven other bids were received.

✚**Clinton, Ark.**—The contract for the construction of a steel bridge over the Little Red River has been awarded to the GREENBERG IRON CO., Terre Haute, Ind., at $9500.

Little Rock, Ark.—It is reported that the Chicago, Rock Island & Pacific Ry. is preparing to build a reinforced-concrete viaduct over its tracks on East Second St. It will be about 70 ft. long and 46 ft. wide. The estimated cost is $30,000. The work will be done under the supervision of Henry Levinson, City Engr.

Searcy, Ark.—Bids will be received until 1 p.m., Aug. 19, by J. A. Marsh, County Judge of White County, for the construction of a bridge across the Little Red River.

Canadian, Tex.—Bids will be received until Aug. 23 by the Commissioners Court of Hemphill County for the construction of a bridge over the Canadian River. The estimated cost is $74,000.

Houston, Tex.—(Official)—Bids will be received until 10 a.m., Aug. 16, by H. L. Washburn, Audr. of Harris County, for the construction of a bridge across Halls Bayou on the Houston and Aldine Rd.

✚**Antlers, Okla.**—(Official)—The Commissioners of Pushmataha County have awarded the contract for the construction of five bridges to the ILLINOIS STEEL BRIDGE CO., Jacksonville, Ill., at $44,940. Other bidders were: Vincennes Bridge Co., $47,728; Missouri Valley Bridge Co., $48,450; Missouri Bridge & Iron Works, $46,728; Canton Bridge Co., $45,115; Federal Bridge Co., $50,575. C. A. Heere is County Clk. Noted July 29.

Fairview, Okla.—The Board of Commissioners of Major County is reported to be contemplating the construction of about 40 new bridges. The estimated cost is $10,000. G. A. Newton is County Clk.

✚**Ft. Towson, Okla.**—A contract for the construction of a steel bridge with concrete piers and abutments, has been awarded to the PLUMMER-ADAMS CONSTRUCTION CO., Springfield, Mo., at $15,000.

Kingfisher, Okla.—Bids will be received until Aug. 16 by the Commissioners of Kingfisher County for the construction of 17 steel and concrete bridges. The estimated cost is $21,500. C. R. Steel is Engr. William G. Newer is County Clk. Noted June 3.

Gila Bend, Ariz.—See item under "Railways."—Arizona.

Aberdeen, Wash.—The City Council has engaged C. E. Fowler, Engr., Central Bldg., Seattle, to prepare plans for rebuilding the West Toll Bridge over the Chehalis River. It will be a 240-ft. span, and the estimated cost is $15,000.

✚**Seattle, Wash.**—The Board of Public Works has awarded contracts for the construction of two bridges over Lake Washington Canal as follows: Bridge at 15th Ave., N. W., complete structure to HANS PEDERSON, Madison Block, Seattle, at $242,620; Fremont Ave. Bridge, superstructure, BEERS BUILDING CO., Pittock Bldg., Portland, Ore., at $154,601; substructure to the PACIFIC STATES CONSTRUCTION CO., Burke Bldg., Seattle, at $111,916. Both bridges will be of the double-leaf bascule trunnion type. Noted July 1 and 29.

Salem, Ore.—Bids will be received until Aug. 16 by the County Court of Marion County for the construction of a bridge across the Little North Fork of the Santiam River on the road between Gates and Cold Creek. The estimated cost is $10,000. Max Gehler is Clk.

Dunsmuir, Calif.—Bids will be received until 2 p.m., Aug. 23, by the State Highway Commission, Forum Bldg., Sacramento, for the construction of a reinforced-concrete bridge over the Sacramento River near Dunsmuir. It will have one arch 180 ft. long, and two arches of 114 ft. each. Austin B. Fletcher is State Highway Engr. Noted Aug. 5.

✚**Eureka, Calif.**—The Board of Supervisors of Humboldt County has awarded the contract for the construction of a suspension bridge across the Salt River at Ballou's Ford to FRANK L. SMITH, at $16,490. Other bidders were: E. Moore & Jacobs, $18,487; Joseph H. Moore & J. N. Lentell, $19,972; Mercer-Fraser Co., $21,316.

✚**Sacramento, Calif.**—The State Highway Commission has awarded a contract for the construction of two bridges across Boulder Creek and Shotgun Creek in Shasta County, to A. F. ROLANDI, San Francisco, at $5450.

San Jose, Calif.—(Official)—Bids will be received until 11 a.m., Aug. 23, by the Board of Supervisors of Santa Clara County for the construction of a two-span girder type reinforced-concrete bridge over Bodfish on the Bodfish Rd., and for slab type reinforced-concrete culvert on the Shannon Rd. Henry M. Ayer is Chn., Bd. of Supvrs. Henry A. Pfister is Clk.

✚**Ukiah, Calif.**—The Board of Supervisors of Mendocino County has awarded a contract for bridge work to W. M. PRICE, at $6000.

WATER SUPPLY—IRRIGATION

★**South Braintree, Mass.**—(Official)—Bids will be received until Aug. 21 for furnishing c.-i. water pipe and appurtenances and for laying water mains. W. E. Maybury is Supt. of Water Wks.

★**Hartford, Conn.**—Bids were received by the Board of Water Commissioners, Aug. 3 for the construction of the dam of the compensating reservoir in connection with the Nepaug water system, as follows: Charles W. Blakeslee & Sons, New Haven, $357,766; Larkin & Sangster, Seneca Falls, N. Y., $396,990; Winston & Co., Brown Station, N. Y., $399,540; Coleman Bros., Chelsea, Mass., $414,940; T. Stuart & Sons Co., Newton, Mass., $426,290; Peter F. Connolly & Co., Boston, Mass., $433,195; Brune & Petitti, Boston, Mass., $438,750; High Nawn Co., Boston, Mass., $442,805; H. S. Kerbaugh, New York, N. Y., $449,646; Fred T. Ley Co., Springfield, Mass., $461,190; Piersen Engineering & Construction Co., Hartford, Conn., $465,285; Walsh Construction Co., Davenport, Iowa, $485,539; J. F. Cogan Co., New York, N. Y., $486,970; Bates & Rogers Construction Co., Chicago, Ill., $512,767 and James A. Hart Co., New York, N. Y., $723,860. Noted July 15.

Buffalo, N. Y.—The Council contemplates issuing bonds for $250,000, the proceeds of which will be used for the extension of its water system. George H. Norton is Act. Comr. of Pub. Wks.

✚★**Ilion, N. Y.**—(Official)—The contract has been awarded to CHARLES A. CHATHAM, 119 University Ave., Syracuse, at $12,832, for constructing a diverting dam and appurtenances. Other bidders were: George & Bove, $13,202; Ralph F. Relly, $12,759; Charles R. Lewis, $14,875; F. W. Johnston, $16,279. Thomas McGreger, $13,849 and A. Harper, $13,538. George Rasbach is Clk. Noted July 22.

✚**Lockport, N. Y.**—(Official)—The contract will be awarded to the C. B. WHITINGE CO., Lockport, at $15,090, for laying water mains after the money has been received for the water bonds. William G. Spaulding is Clk., Bd. of Water Supply. Noted July 29.

✚**Camden, N. J.**—The contract has been awarded to the CAMDEN IRON WORKS, Philadelphia, Penn., at $12,000, by the Water Commission of the City Council for two 5,000,000-gal. centrifugal pumps. Noted May 6 and July 29.

Trenton, N. J.—Governor Fielder has officially approved the plans of the State Water Supply Commission for the development of the Wanaque watershed for the joint use of the municipalities in the northern part of the state which have joined in the project.

West Orange, N. J.—An election will be held Aug. 16 to vote on the question of purchasing the water system of the West Orange Water Co. The amount will not exceed $300,000. Carroll P. Bassett is Pres. of the company. Noted July 15.

Allentown, Penn.—A report has been submitted by Charles D. Weirbach, City Engr., on the installation of pumps at the pumping station. The estimated cost is $27,500 to $48,500, according to pumps used.

Hatfield, Penn.—Bids will be received until Aug. 16 by Jonas S. Moyer, Town Clk., for laying about two miles of water mains. Noted Apr. 8.

✚**Langhorne, Penn.**—(Official)—The contract has been awarded to the AMERICAN WATER SOFTENER CO., 1011 Chestnut St., Philadelphia, for installing a filtration plant. Noted July 8 and 15.

✚★**Mifflinburg, Penn.**—(Official)—The contract has been awarded to F. H. GIMBERLING, Selins Grove, at $3979, by the borough for constructing a 500,000-gal. reinforced-concrete reservoir. Alexander Potter, 50 Church St., New York, N. Y., is Consult. Engr. Noted May 27 and July 22.

Tamaqua, Penn.—Plans have been prepared for the construction of a 357,000,000-gal. reservoir. The estimated cost is $100,000. Noted Nov. 19, 1914.

Keedysville, Md.—The water mains of the Boonsboro Water Co., Boonsboro, will be extended to the town limits.

North East, Md.—The Maryland Water Co. has been granted permission to issue $40,000 in bonds, the proceeds of which will be used for the extension of its system.

Columbia, Tenn.—The Columbia Water & Light Co. plans to construct a filtration plant. W. H. Weiss, Kansas City, Mo., is Consult. Engr. Noted June 10.

Madisonville, Tenn.—(Official)—We have been advised that the city does not contemplate making extensions to the water system this year. Noted Aug. 5.

Louisville, Ky.—Bids will be received about Sept. 1, according to press reports, by the Louisville Water Co. for laying a 48-in. water main. James B. Wilson is Ch. Engr.

Brewster, Ohio—Bids will be received until Aug. 20 by L. S. Lash, Village Clk., for constructing a municipal water system. The W. H. Sherman Co., Toledo, is Engr. Noted Feb. 4.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Sept., 7, for the construction of an 8-in. water main in Derbyshire, Kent, Lennox, Norfolk and Surrey Rd. The F. A. Pease Engineering Co., Marshall Bldg., Cleveland, is Engr.

Farmersville, Ohio—According to press reports bids will be received about Aug. 20 by the city for the installation of a water system. The estimated cost is $14,500. A. S. Gilbert is Village Clk. Noted June 10.

Oberlin, Ohio—The city plans to construct a 10,000,000-gal. reservoir.

East Chicago, Ind.—The State Board of Health recommends the installation of a filtration plant for the East Chicago and Indiana Harbor Water Works Co.

Topeka, Ind.—The Topeka Water Co., recently incorporated with $8000 capital, will install a water system. A. D. Ritter is interested.

+Frankfort, Ill.—(Official)—The contract has been awarded to the CHICAGO BRIDGE & IRON WORKS, Chicago, at $4950, for constructing a water tank and tower. Noted July 22.

+Joliet, Ill.—(Official)—The contract has been awarded to ROBERT SHANNON, 421 Pleasant St., at $38,516, for laying water mains.

+Murphysboro, Ill.—The contract has been awarded to the NEW YORK CONTINENTAL JEWEL FILTRATION CO., New York, N. Y., for constructing a filtration plant for the Water Works, Electric Light & Gas Co. Noted July 29.

+Rockford, Ill.—(Official)—Bids were received July 27 for furnishing pumping equipment for well No. 8 as follows: Rotary Type: LAYNE & BOWLER CORPORATION, Los Angeles, Calif., Proposal No. 1, 60 doz., $4882 (awarded contract); American Well Works, Aurora, 105 doz., $5739; Layne & Boyler Corporation, Proposal No. 2, 60 doz., $5782; Byron Jackson Co., San Francisco, Calif., $5833. Reciprocating Type: American Well Works, Aurora, 150 doz., $9600; and International Steam Pump Works, Chicago, 105 doz., $9900. Noted July 15 .

Springfield, Ill.—The construction of locks at the dam in the Sangamon River is under consideration by the Council.

Watertown, Ill.—Bids will be received until 3 p.m., Aug. 16, by Frank D. Whipp, Fiscal Supv., Springfield, for laying c.-i. water mains at the Watertown State Hospital. Martin C. Schwab, Mallers Bldg., Chicago, is Consult. Engr.

+Ellsworth, Wis.—The contract has been awarded to HECTOR COOLSAET, Marshall, Minn., at $5865, for making extensions to the water system. Noted June 10 and July 22.

+West Allis, Wis.—(Official)—The contract has been awarded to HERMAN HOBONSEE, Milwaukee, at $1.04 per ft. for water pipe and $0.79 per ft. for sewer pipe. Noted Mar. 11.

Germania, Iowa—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. M. S. Stoddard is City Clk.

+Kingsley, Iowa—(Official)—The contract has been awarded to the DES MOINES BRIDGE CO., Des Moines, at $4350, for constructing water tanks. Noted July 29.

+Ogden, Iowa—The contract has been awarded to the ALAMO ENGINE & SUPPLY CO., Omaha, Neb., at $9378, for furnishing 18,000 ft. of 4-in. water pipe and specials. Noted July 22.

Forest Lake, Minn.—An election will be held to vote on the question of issuing $20,000 in bonds, the proceeds of which will be used for the construction of a water system and storm water drains. J. F. Druar, St. Paul, is Engr.

West St. Paul, Minn.—(St. Paul post office)—An election will be held to vote on the question of issuing $35,000 in bonds, the proceeds of which will be used for the extension of the water system. J. F. Druar, St. Paul, is Engr.

Cortland, Neb.—The citizens contemplate installing a water system.

Syracuse, Neb.—Bids will be received until Aug. 19 by William Stanbro, Village Clk., for making inprovements to the water system. C. O. Martz, Lincoln, is Engr. The estimated cost is $8500. Noted June 10 and July 15.

+Watertown, S. D.—(Official)—The contract has been awarded to the AMERICAN CAST IRON PIPE CO., Birmingham, Ala., at $7875, for furnishing c.-i. pipe and castings. Other bidders were the United States Cast Iron Pipe & Foundry Co., $7925 and the Crane Co., $9425. Noted July 29.

Columbia Falls, Mont.—A franchise has been granted to James A. Talbot, according to press reports, for the construction of a water system. A. L. Jaqueth, Kalispell, is Engr.

Macon, Mo.—At a recent election the citizens voted in favor of issuing bonds for $30,000, the proceeds of which will be used for the extension of the water system and for the installation of a filtration plant. Harper & Stiles, Grand Ave. Temple, Kansas City, is Engr. Noted Dec. 10, 1914.

Heber Springs, Ark.—Plans have been prepared and accepted for the construction of water and sewer systems. The estimated cost is $80,000. Noted Feb. 18.

+Dallas, Tex.—The contract has been awarded to the NEPTUNE METER CO., 90 Worth St., New York, N. Y., at about $72,000 for furnishing water meters.

Elgin, Tex.—(Official)—Bids will soon be received for the construction of a water system, the estimated cost of which is $11,000. J. W. Thomas is City Secy. Noted July 2.

Galveston, Tex.—Bids will be received until Aug. 26 by John D. Kelley, City Secy., for furnishing and erecting an air pumping engine at the Alta Loma pumping station.

Caddo, Okla.—At a recent election the citizens voted in favor of issuing bonds for $20,000, the proceeds of which will be used for the construction of a water system.

Grand Junction, Colo.—The citizens contemplate holding a special election to vote on the question of a bond issue for $15,000, the proceeds of which will be used for the improvement of the water system. H. F. Vorbeck is Water Comr.

Pueblo, Colo.—According to press reports the Cuchavas Irrigation Co. will issue $1,200,000 in bonds, the proceeds of which will be used to complete its irrigation system. Devine & Preston, Pueblo, is Representative.

Brigham, Utah—It is reported that plans are being prepared for the construction of an irrigation system to water the beet sugar lands on the west side of Bear River for the Utah Idaho Sugar Co.

Salt Lake City, Utah—The Sand Point Irrigation Co. plans to build a pumping plant on Utah Lake. Jay Dinsmore is Mgr.

Spanish Fork, Utah—Bids will soon be received for the construction of an irrigation system to water 5000 acres of land in the Sand Point project. Jay and B. F. Dinsmore, Salt Lake City, is Arch.

+Phœnix, Ariz.—Contracts have been awarded to the PITTSBURGH-DES MOINES STEEL CO., at $3240 and to the CHARLES C. MOORE ENGINEERING CO., San Francisco, Calif., at $4475 for installing water tube boiler and steel tower and tank at the Asylum, State Prison and State House.

Hillyard, Wash.—Bonds for $6000 have been voted by the citizens, the proceeds of which will be used for the construction of a new water system. Noted July 29.

Paulsbo, Wash.—Plans are being prepared for the construction of a water system by G. N. Miller & Son, Burke Bldg., Seattle. The estimated cost is $10,000. Noted June 17.

Seattle, Wash.—Water mains will be laid in East 54th St., and in Bradner St. A. H. Dimock is City Engr.

Seattle, Wash.—Plans have been approved by the City Council for the sealing of the Cedar River impounding dam. A. H. Dimock is City Engr. Noted Apr. 22 and June 17.

Stanwood, Wash.—Plans have been prepared by the Coast Engineering Co., White Bldg., Seattle, for the construction of an auxiliary water system to furnish water for fire protection. The estimated cost is $10,000.

Halfway, Ore.—Press reports state that a permit has been granted for the use of the Makinson Spring for a municipal water supply. A plant will be constructed at an estimated cost of $20,000.

+Modesto, Calif.—The contract for the construction of a concrete flume across Dry Creek on the main canal of the Modesto Irrigation District has been awarded to ERNEST GREEN, Modesto, at $60,602.

Matheson, Ont.—Bonds for $20,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. F. W. Rockall is Clk.

East Kildonan, Man.—A bylaw has been passed by the Municipal Council for $41,000, the proceeds of which will be used for the construction of water mains.

Regina, Sask.—Bids will be received until Sept. 6 by J. W. Mackay, Supt. of Water Wks., for furnishing and installing a 7,000,000-gal. pumping unit at the power house.

SEWERS

Boston, Mass.—Bids will be received until Aug. 13 by the Department of Public Works for the construction of sewers and drains in various streets from Yarmouth to West Newton St. Edward F. Murphy is Comr.

+Boston, Mass.—The contract for the construction of sewers in Jamaicaway, Parkton Rd., Pondway Ave., Moraine and Halifax St. has been awarded to WILLIAM L. DOLAN, at $5700.

Boston, Mass.—Bids will be received until 1:30 p.m., Aug. 18, by the Metropolitan Water and Sewerage Board for 170 tons of 84-in. diam. bell and socket c.-i. pipe and 140 tons of special c.-i. pipe ranging from 48- to 84-in. diam.

East Gardner, Mass.—(Gardner post office)—Bids will be received until Aug. 18 by the State Board of Insanity, Room 36, State House, Boston, for the construction of a sewer system at the Gardner State Colony.

Worcester, Mass.—The Sewer Department contemplates the construction of extensions to the double sewer system in the Chandler St. Section. The estimated cost is $32,600. Mathew Gault is Supt. of Sewers.

+Hartford, Conn.—The contract for the construction of sewers in Ridgefield St. and Westboune Parkway has been awarded to EDGAR T. DUNCAN, at $9982. Other bids were: O'Neil Bros., $10,451; W. T. Ryan Construction Co., $11,715; A. W. Bryne, $12,050; Joseph Manocchio, $12,264; Louis Rogers & Co., $12,266; Antonio Lambo, $12,395; C. H. Slocomb & Co., $12,586; N. C. Casciano, $12,949; Berardino & Tomassetti, $12,-272.

+Wallingford, Conn.—(Official)—The contract for the construction of tile pipe sewers and for the completion of the high level sewer has been awarded to O'NEIL BROS., Hartford, at $5647. Other bids were: N. C. Cascino, Hartford, $7251; E. F. Kavanaugh, Wallingford, $7726; Thomas F. Mahr, New Haven, $9107; Berdino & Tomsetti, Meriden, $9492. Noted July 29.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received by Marcus M. Marks, Borough Pres., for the relocation and reconstruction of sewers in Rector St., from: Melrose Construction Co., $16,246; P. J. Kearn, $16,414; Lawrence Contracting Co., 2409 Walton Ave., New York, N. Y., $11,886; E. A. Mathew, $21,522; Kingsbridge Contracting Co., $14,518; U. S. Drainage & Irrigation Co., $30,221; A. Spooner & Sons, $14,130; Casperini & DeBlasio, $19,246; P. Reilly, $20,-569; Paconi Contracting Co., $14,551; Briggs & McLaughlin, $16,792; E. J. Granites Co., $13,570. Noted July 29.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 16, by Marcus M. Marks, Borough Pres., for the construction of sewers in Ellwood St. from Nagle to Sherman Ave.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 18, by Marcus M. Marks, Borough Pres., for the alterations and improvements to the sewer in First Ave., and to the outlet sewer at Dyckman St. and the Hudson River, including the construction of a submerged outlet and screening chamber.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Aug. 19, by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Atlantic Ave., Fourth Ward, and for the construction of inlet basins in Webster Ave., First Ward.

✚New York, N. Y.—(Borough of Richmond)—(Official)—The contract for the construction of temporary sanitary sewers in Kissel, Castleton, Henderson Ave. and in Brighton Blvd. has been awarded to JOSEPH JOHNSON SONS, at $20,907. Noted July 22.

✚Syracuse, N. Y.—(Official)—The contract for the construction of storm water sewers in the northeastern section of the city has been awarded to FRANK SPOSATTO, 124 Noxon St., Syracuse, at $43,804. Noted July 29.

Atlantic Highlands, N. J.—At a recent election the citizens voted to issue $25,000 in bonds. The proceeds will be used for the improvement and extension of the sewer system. Noted June 10.

✚Hackensack, N. J.—The contract for the construction of a sewer system and a sewage-disposal plant has been awarded to MILLER & PIZZIMENTI, Caldwell, at $87,912. Noted July 22.

Jersey City, N. J.—Bids will be received until 4 p.m., Aug. 17, by the Board of Commissioners for the installation of a sewer system in West 12th St. William P. Lee is City Clk.

Franklin, Penn.—(Official)—No sewer work is contemplated by the city at present. Noted Aug. 5.

Wilkes-Barre, Penn.—Joseph Banks, Wilkes-Barre, at $5329, submitted the lowest bid for the construction of sewers in Cedar and Grant St. and in Lincoln Ave.

✚Baltimore, Md.—The contract for the construction of an additional section of sanitary sewers has been awarded to RAYN & REILLY, at $96,483. Noted July 29.

Richmond, Va.—Charles G. Bolling, City Engr., has been authorized to prepare plans for the construction of a metropolitan sewer system in the annexed territory on the north side of the Chesapeake & Ohio R.R. tracks to Hermitage Rd.

Parkersburg, W. Va.—Bids will be received until Aug. 18 by Frank Good, City Clk., for the construction of five sewers in various streets.

Albemarle, N. C.—The City Commissioners have approved plans prepared by J. G. Spinks, City Engr., for the construction of a sewer system. Noted Mar. 25.

Ayden, N. C.—An election will be held Aug. 20 to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the construction of a sewer system.

Atlanta, Ga.—An election will be held Sept. 16 to vote on the question of issuing $1,000,000 in bonds. The proceeds will be used for the construction of sewers and sewage-disposal plants. Noted Aug. 5.

Ocala, Fla.—Plans are being prepared for the construction of a sewer system by J. B. McCrary Co., Atlanta, Ga. Noted June 17.

Cloverdale, Ala.—At a recent election the citizens voted to issue $30,000 in bonds. Part of the proceeds will be used for the construction of a sewer system. Noted July 8.

★Paducah, Ky.—Bids were received Aug. 3 by the Commissioner of Public Works for the construction of the outfall sewer, District No. 3, Contract No. 1 from: Yancy & Johnson, Paducah, at $49,361, and Winston Bros., Minneapolis, Minn., at $45,834. Noted July 8.

Chardon, Ohio—Bids will be received until noon, Aug. 19, by R. S. Parks, Clk., Village Council, for the construction of a sewage treatment plant and approximately eight miles of 6- to 12-in. vitrified pipe sewers. E. A. Fiedler is Village Engr.

Cincinnati, Ohio—The lowest bid received for the construction of sewers in South Canal St. and in county property was that of Thomas Strach, 31 Goodall Bldg., Cincinnati, at $6400. Noted July 15.

Cleveland, Ohio—Bids will be received until noon, Aug. 19, by the Commissioner of Purchases and Supplies for the construction of sewers in various streets. Robert Hoffman is City Engr.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received until Sept. 7 by H. H. Canfield, Clk., for the construction of storm and sanitary sewers in Derbyshire, Kent, Norfolk and Surrey Rd. F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, is Engr.

Hamilton, Ohio—The lowest bid submitted for the construction of sanitary sewers was that of John L. Walker & Co., at $35,000.

Lima, Ohio—W. H. Dittoe, Ch. Engr. of the State Bd. of Health, has recommended to the City Council the establishing of a scientific sewer system and the construction of a reservoir.

✚Toledo, Ohio—(Official)—The contract for the construction of local sanitary sewers in District No. 18 in Lucas County has been awarded to J. N. BICK, Toledo. Noted July 29.

Kendallville, Ind.—The City Council has retained Smith & Boulay, Consult. Engr., Toledo, Ohio, to prepare plans for the construction of a sanitary sewer system.

✚Alma, Mich.—The contract for the construction of sewers in Gratiot, Woodworth and the Rockingham divisions has been awarded to THOMAS SAMPSON, Mount Pleasant, at $6090.

✚Escanaba, Mich.—The contract for extending the sewer system has been awarded to JOHN F. LINSAY, Escanaba, at $33,271.

Alton, Ill.—Plans are being prepared for the construction of a sewer system and a sewage-disposal plant for the Alton State Hospital.

Berwyn, Ill.—Bids will be received until 8 p.m., Aug. 17, by the Board of Local Improvements for the construction of sewers in various streets . Oscar N. Lindahl is Secy., Bd. of Local Imp.

Evanston, Ill.—The Commissioner of Public Works is preparing plans for the construction of a sewer system in the southwesterly section of the city. The estimated cost is $324,400.

✚Joliet, Ill.—(Official)—The contract for the construction of the Third Ward sewer system has been awarded to ROBERT SHANNON, 421 Pleasant St., Joliet, at $51,868. Other bids were: Curtis & Tyndall, $61,653; Monahan Bros., $[illegible]; Foley Construction Co., $59,053; Newkirk & Powers, $[illegible]; Embankment Co., $53,424. Noted July 22.

✚Wenona, Ill.—(Official)—The contract for the construction of a sewer system with septic tanks has been awarded to DRISCOLL & O'BRIEN, Decatur, at $17,366. Noted July 29.

✚Beaver Dam, Wis.—(Official)—The contract for the construction of sewers in various streets has been awarded to E. P. SYKER, Minneapolis, Minn. Noted July 22.

Madison, Wis.—Bids will be received until Aug. 13 by E. E. Parker, City Engr., for the construction of approximately 17,050 ft. of 20-in. c.-i. pipe sewers.

Milwaukee, Wis.—The City Council has been requested by the Sewer Commission to provide for a bond issue of $1,500,000 for the proposed sewer construction for 1916.

Neenah, Wis.—Plans are being prepared by E. L. Spencer for the construction of a sewer system.

✚West Allis, Wis.—(Official)—The contract for the construction of sewers in various streets has been awarded to HERMAN HOHENSON, Milwaukee. Noted July 22.

Ames, Iowa—The Council plans to construct approximately 22,500 ft. of 8-in., 1850 ft. of 10-in. pipe sewers, 35 flush tanks and 40 manholes.

Brooklyn, Iowa—Surveys are being made and plans will be prepared for the construction of a sewer system.

✚Carroll, Iowa—The contract for improving the sewage treatment plant has been awarded to the OFFERMAN CONSTRUCTION CO., South Omaha, Neb., at $13,600.

Clinton, Iowa—The lowest bid received for the construction of sewers in the Fourth Ward was that of Thomas Carey & Son, Clinton, at $27,017. J. G. Thorne is City Engr. Noted Aug. 5.

Elliott, Iowa—Preliminary surveys have been made by Theodore S. De Lay, Creston, for the construction of a sewer and drainage system.

Ft. Madison, Iowa—The City Council contemplates the construction of a sewer system in the section west of Spring Creek.

✚Grinnell, Iowa—The contract for the construction of approximately one mile of storm sewers has been awarded to BASH & JANES, Joplin, Mo., at $4177.

✚Laporte City, Iowa—(Official)—The contract for the construction of sewers has been awarded to BASH & JANES, Joplin, Mo., at $11,751. Other bids were: Anderson & Empie, Manhattan, $15,135; D. E. Keeler Co., Davenport, $14,176; M. S. Jackson, Cedar Rapids, $14,008; W. D. Yeager, Cedar Rapids, $14,596; Dearborn Construction Co., Waterloo, $13,520; Moore-Sieg Construction Co., Waterloo, $12,882. Noted July 29.

Mason City, Iowa—Plans are being prepared by Frederick Bass, Consult. Engr., Minneapolis, Minn., for the construction of a sewage-disposal plant of the Imhoff type. The estimated cost is $70,000.

Oskaloosa, Iowa—The city contemplates the construction of septic tanks and improving the sewage-disposal plant. The estimated cost is $10,000 H. C. Hawkins is City Engr.

✚Sioux City, Iowa—The contract for the construction of the Cresent Park storm sewer has been awarded to CADY & SAVONELL.

Sandstone, Minn.—Bids will be received until Aug. 23 by C. Rudisuhe, Village Recdr., for the construction of sewers. Noted Aug. 5.

Stillwater, Minn.—Bids will be received until Aug 17 by the City Council for the construction of sewers in Churchill and South Fourth St. Lewis W. Clarke is City Engr.

✚Virginia, Minn.—The contract for the construction of storm sewers has been awarded to the EVELETH CONSTRUCTION CO., Eveleth, at $27,011. Noted July 1.

Chanute, Kan.—Bids will be received until Aug. 20 by C. G. Wood, City Clk., for the construction of a sewage-disposal plant and septic tanks. Noted Apr. 22.

✚Norton, Kan.—(Official)—The contract for the construction of main, intercepting and lateral sewers and a sewage-disposal plant has been awarded to the GORDON & TAYLOR CONSTRUCTION CO., Denver, Colo., at $32,821. Other bids were: T. M. Torson, Kansas City, $38,442; M. W. Holben, Attica, Ind., $32,643; W. W. Cook, Junction City, $26,002; O'Neil Construction Co., Leavenworth, $43,103. Noted July 29.

Wichita, Kan.—The contract for the construction of approximately ½ mile of storm sewers will be awarded about Sept. 1. The estimated cost is $4500. Noted July 29.

✚Bridgeport, Neb.—(Official)—The contract for the construction of sewers has been awarded to C. J. BURK & SON, Kearney, at $5747. Noted July 29.

Valentine, Neb.—Bids will be received until 8 p.m., Aug. 14, by W. E. Haley, Village Clk., for the construction of sewers. The estimated cost is $5000.

✚Aberdeen, S. D.—The contract for the completion of the First Ave. sewer has been awarded to the ARTHUR A. DOBSON CO., Lincoln, Neb., at $24,027.

Fargo, N. D.—Bids will be received by A. R. Watkins, City Audr., until 10 a.m., Aug. 18, for the construction of lateral sewers in District Nos. 1 and 3.

Bozeman, Mont.—Bids will be received until 5 p.m., Aug. 19, by C. A. Spieth, City Clk., for the construction of storm sewers in District Nos. 98 and 99.

✚Wibaux, Mont.—The contract for the construction of a sewer system has been awarded to the HAGGERT CONSTRUCTION CO., Fargo, N. D., at $12,998. Noted July 22.

Kansas City, Mo.—The Board of Public Works has instructed the Engineering Department to prepare plans for the construction of sewers in East 27th St. Curtis Hill is City Engr.

Springfield, Mo.—At an election held Aug. 2 the citizens for the third time voted against the question of issuing $50,000 in bonds. The proceeds was to have been used for the construction of sewers and repairing the old sewers. Noted July 22.

Heber Springs, Ark.—Plans have been approved by the City Council for the construction of a sewer system and waterworks. The estimated cost is $80,000. Noted Feb. 11.

Waco, Tex.—An election will soon be held to vote on the question of issuing $60,000 in bonds, the proceeds of which will be used for the construction of a sewage-disposal plant. Henry G. Elrod, Dallas, is Engr.

Colorado Springs, Colo.—The city contemplates the construction of a conduit in 17th St. to carry off the flood waters in West Colorado Springs. The estimated cost is $30,000.

Seattle, Wash.—Plans have been approved by the Board of Public Works for the construction of sewers in Sixth Ave., N. W. The estimated cost is $90,000. L. B. Young is Chn. of Bd. of Pub. Wks.

Enterprise, Ore.—The City Council has passed an ordinance providing for the construction of lateral sewers estimated to cost $25,000. Noted July 29.

†Portland, Ore.—The contract for the construction of sewers in East Alder St. from East Second St. to the harbor line has been awarded to the ALEXIS CONTRACT CO., Portland, at $21,106. Noted Aug. 5.

†Los Angeles, Calif.—(Official)—The contract for the construction of sewers in Temple St. from Oxford Ave. to Kingsley Drive and in other streets has been awarded to J. CHUTUK, Los Angeles, at $39,118. Other bids were: Peter S. Tomich, $40,500; Peter Janicich, $44,300; Zarubica & Wusetich, $45,879; John Radich, $48,500; Waltoon & Spicer, $42,000; James Kennedy, $42,588; Charles Chutuh, $47,575; John Sutals, $53,400; Paic H. Howland, $64,473. Noted July 29.

†Sacramento, Calif.—The contract for the construction of Unit No. 6 of the sewer system has been awarded to A. TEICHERT & SON, at $71,476.

Sausalito, Calif.—Bids will soon be received by the Board of Trustees for the installation of a sewer system for the South Side. The estimated cost is $12,500.

Elmira, Ont.—H. J. Bowman, Court House, Berlin, Ont., is preparing plans for the construction of a sewer system. The estimated cost is $30,000.

Matheson, Ont.—The city contemplates the construction of a sewer system. F. W. Rockall is City Clk.

Mimico, Ont.—Plans are being prepared for the construction of a sewage-disposal plant and a pumping station. The estimated cost is $50,000.

Toronto, Ont.—Bids will be received until noon, Aug. 17, by T. L. Church, Chn., Bd. of Control, for the construction of sewers in Catfish Pond.

Toronton, Ont.—Charles J. Hastings, Medical Health Officer, and R. C. Harris, Comr. of Pub. Wks., have, after a thorough investigation of the sewer system, reported that all experiments for the improvement of the existing system are without results. They recommend the installation of Imhoff tanks which will cost $600,000, or if installed without the sprinklers will cost approximately $328,700.

GARBAGE

Ottawa, Ont.—Bids will be received until Aug. 26 by the Secretary of the Board of Control for the construction of an incinerator.

†Transcona, Man.—The contract has been awarded to the IDEAL INCINERATOR CO., at $18,875, for constructing an incinerator.

STREETS AND ROADS

Portland, Maine—Bids will be received until noon, Aug. 13, by the Commissioner of Public Works for paving Auburn St. with bituminous macadam or concrete.

†Beverly, Mass.—The contract for repaving Rantoul St. from Bow to Chestnut St. has been awarded to M. McDONOUGH, Swampscott, at $40,000. Noted July 29.

†Boston, Mass.—Contracts have been awarded for constructing 5300 lin.ft. of road in Ashburnham to the ALCO CONSTRUCTION CO., Boston, at $8169 and 5300 lin.ft. of road in Chelmsford to J. E. WATKINS, Amesbury, at $12,094. Noted July 29.

†Hartford, Conn.—A contract has been awarded by the State Highway Commissioner for the construction of about 14,960 lin.ft. of graded road in Ashford Township to the CONNECTICUT GOOD ROADS & CONSTRUCTION CO., New Britain, at approximately $21,765.

★Albany, N. Y.—(Official)—Bids will be received until 1 p.m., Aug. 24, by Edwin Duffey, State Highway Comr., for repairing and constructing highways in various counties.

★Albany, N. Y.—(Official)—Bids will be received until 1 p.m., Aug. 26, by Edwin Duffey, State Highway Comr., for improving and constructing highways in various counties.

★★Albany, N. Y.—(Official)—Contracts have been awarded for constructing Road No. 5498, Cornwall-West Point Rd., Parts 1 and 2, Orange County, 4.03 miles to the JOHN L. HAYES CONSTRUCTION CO., Yonkers, $273,737; Road No. 5573, Cornwall-West Point Rd., Part 3, Orange County, 1.17 miles to NORDONE & PETRILLI, Mt. Vernon, $13,342. Noted July 29.

★Albany, N. Y.—(Official)—Bids were received Aug. 3 by Edwin Duffey, State Highway Comr., for repair highways in various counties as follows:

Repair Contract No. 825, Broome County, 1.76 miles: Charles E. Haney, Camillus, $12,690; Port Jervis Construction Co., Port Jervis, $13,386.

Repair Contract No. 820, Chemung County, 2.33 miles: Frank K. Liberatore, Elmira, $12,198; John C. Bradley, Corning, $13,532; Charles E. Haney, Camillus, $13,528; McGreevey, McGuigan & Baum Construction Co., Elmira, $13,620; Kennedy Construction Co., Albany, $13,698; Peter F. Connolly Co., Horseheads, $14,245; J. W. Brennan Construction Co. Inc., Geneva, $14,929; F. L. Breese Construction Co., Elmira, $15,246; Clyde Construction Co., Albany, $14,303; E. Styring, Syracuse, $15,347.

Repair Contract No. 830, Chenango County, 3.55 miles: Smith & Stoll, Port Crane, $13,391; Paddleford & King, Sherburne, $14,441; Charles E. Haney, Camillus, $14,614; Nash & Griffin, Norwich, $14,951; Ruddy-Saunders Construction Co., Troy, $16,090.

Repair Contract No. 822, Clinton County, 1.99 miles: James Conway, Plattsburgh, $7806; A. Florentine & Son, Plattsburgh, $7863; Richard Hopkins, Troy, $7972; L. S. Derossia & Co., Massena, $7989; Gruner & Hallenbeck, Harriman, $8542.

Repair Contract No. 816, Columbia County, 9.26 miles: Olin T. Benedict, Pittsfield, Mass., $15,426; Crowe & Walsh, Pittsfield, Mass., $16,499; William Doyle, Saugerties, $16,833; Marks Kearney, Hudson, $16,868; Faille & Shackett, Troy, $17,033; Thomas H. Karr, Troy, $17,284; James J. Rigney, Rensselaer, $18,032.

Repair Contract No. 834, Dutchess County, 4.12 miles: Henry Clinton, Poughkeepsie, $12,950; Thomas H. Karr, Troy, $14,495; Conway Bros. & Kennedy, Eddyville, $14,793; Tri-County Construction Corp., Mt. Vernon, $14,794; Ruddy-Saunders Construction Co., Troy, $14,850; William Doyle, Saugerties, $14,870; Abner M. Harper, Inc., Newburgh, $14,900; Thomas J. Martin, Beacon, $14,974; Belmar Contracting Co., Inc., Troy, $17,140.

Repair Contract No. 827, Putnam and Dutchess Counties, 13.47 miles: Thomas H. Karr, Troy, $9939; R. B. Strang, Cold Springs, $9995; Edward Hartney, Modena, $10,721; William Doyle, Saugerties, $10,757; Thomas J. Martin, Beacon, $10,977; Amos D. Bridges Sons, Inc., Hazardville, Conn., $12,082.

Repair Contract No. 828, Erie County, 0.87 mile: Union Paving Co., Schenectady, $13,503; Langan Construction Corporation, Albany, $13,594; J. F. Driscoll, Buffalo, $15,252; Henry P. Burgard Co., Buffalo, $17,577.

Repair Contract No. 819, Herkimer County, 5.46 miles: R. D. Cooper, Little Falls, $6715; Richard Hopkins, Troy, $7482; Newport Construction Co., Herkimer, $7852.

Repair Contract No. 637, Monroe County, 0.56 mile: Crouch Bros., Rochester, $12,377; Whitmore, Rauber & Vicinus, Rochester, $12,412; Morrison & Quinn, Inc., Rochester, $12,867; I. M. Ludington Sons, Inc., Rochester, $13,455; Shaw & Lakin, Jamestown, $14,205.

Repair Contract No. 817, Montgomery County, 10.91 miles: Charles Scott, Fort Plain, $4004; Nash & Griffin, Norwich, $4248; John P. Dugan & Co., Amsterdam, $4400; Richard Hopkins, Troy, $4486; Huntoon & Ferguson, Hudson Falls, $4506; Clarence Welsh & Co., Gloversville, $4694; Headley Good Roads Co., Philadelphia, Penn., $4973; William G. Fox, Saratoga Springs, $5170.

Repair Contract No. 823, Otsego County, 1.88 miles: Newport Construction Co., Herkimer, $19,192; Fulton Engineering Co., Inc., Albany, $19,992; Michael O'Brien, Cortland, $20,595; John H. Gordon, Albany, $21,335; Nash & Griffin, Norwich, $21,496; W. E. Bennett, Lanesboro, $21,500; William G. Fox, Saratoga Springs, $21,653; Belmar Contracting Co., Inc., Troy, $21,795; L. F. Bannon Plumbing, Heating & Contracting Co., Kingston, $21,878; Sherman Contracting Co., Inc., Oneonta, $21,994; Newman Concrete Road Co., Athens, Penn., $22,255; R. D. Cooper, Little Falls, $24,190.

Repair Contract No. 818, St. Lawrence County, 5.5 miles: Orlando Beede, Keene Valley, $26,145; Weed & Walsh, Mechanicville, $26,578; Arthur F. McConville, Ogdensburg, $27,865; Richard Hopkins, Troy, $29,128; Thomas Grady, Rochester, $29,632; L. S. DeRossia & Co., Massena, $29,668; Rock-Griffin Co., Massena, $33,186.

Repair Contract No. 815, St. Lawrence County, 19.32 miles: Clarence E. Walker, Troy, $3344; Atlantic Refining Co., Philadelphia, Penn., $3736; Richard Hopkins, Troy, $3756; Pathfinder Construction Co., Inc., Fulton, $3880; Harry W. Roberts & Co., Utica, $3880; Nash & Griffin, Norwich, $3921; John M. Hackett, Dunkirk, $4128; Rock-Griffin Co., Massena, $4128; American Car Sprinkler Co., Worcester, Mass., $4382; P. J. Kennedy, Brasie Corners, $4952.

Repair Contract No. 814, St. Lawrence County, 15.88 miles: Clarence E. Walker, Troy, $2662; Pathfinder Construction Co., Inc., Fulton, $2739; Richard Hopkins, Troy, $2739; Atlantic Refining Co., Philadelphia, Penn., $2754; Harry W. Roberts & Co., Utica, $2860; Nash & Griffin, Norwich, $3043; Rock-Griffin Co., Massena, $3043.

Repair Contract No. 824, Schoharie County, 0.104 mile: J. J. Malloy, Schenectady, $2149; H. A. Knapp, Delmar, $2281; W. J. Cowhig, Albany, $2284; William R. Kimmey, Albany, $2284; Huntoon & Ferguson, Hudson Falls, $2340; S. B. Easton, Albany, $2368; Belmar Contracting Co., Inc., Troy, $2392; Michael O'Brien, Cortland, $2394; Chas. Rose & Son, Cobleskill, $2457.

Repair Contract No. 832, Steuben County, 1.14 miles: Charles E. Haney, Camillus, $6314; Kennedy Construction Co., Albany, $6334; McGreevey, McGuigan & Baum Construction Co. Elmira, $6504; Sweeney & Boland, Rochester, $6782; Peter F. Connolly Co., Horseheads, $7026; Greenfield Construction Co., Hornell, $7145; Clyde Construction Co., Albany, $7287; E. Styring, Syracuse, $7447.

Repair Contract No. 831, Sullivan County, 2 miles: Armstrong & Trowbridge, Roscoe, $12,984; Ruddy-Saunders Construction Co., Troy, $13,343; Port Jervis Construction Co., Port Jervis, $13,470; John A. Jova, Inc., Newburgh, $14,514.

Repair Contract No. 833, Tompkins County, 17.10 miles: Richard Hopkins, Troy, $7637; William Hasard, Trumansburg, $8989; John H. Gordon, Albany, $9204; Nash & Griffin, Norwich, $9387; Headley Good Roads Co., Philadelphia, $9428; E. Styring, Syracuse, $10,226; Patrick D. Conley, Ithaca, $10,244; Peter F. Connolly Co., Horseheads, $10,605.

Repair Contract No. 835, Warren County, 14.37 miles: Defiance Corporation, Ticonderoga, $5046; Kellogg & Boynton, Keeseville, $5138; Huntoon & Ferguson, Hudson Falls, $5139; William G. Fox, Saratoga Springs, $5706.

Repair Contract No. 821, Westchester County, 2.22 miles: Delta Contracting Co., Inc., Jamaica, $3996; Tri-County Construction Corporation, Mt. Vernon, $4104; Thomas H. Karr, Troy, $4198; William Doyle, Saugerties, $4287; Miguel L. Hauck, White Plains, $4440; Frank G. Fowler Construction Co., Mt. Kisco, $4508; White & Colligan, Purchase, $4347.

Repair Contract No. 826, Westchester County, 0.54 mile: Tri-County Construction Corporation, Mt. Vernon, $3454; Thomas H. Karr, Troy, $3494; White & Colligan, Purchase, $3744; Delta Contracting Co., Inc., Jamaica, $3779; Frank G. Fowler Construction Co., Mt. Kisco, $3629; William Doyle, Saugerties, $3924; Miguel L. Hauck, White Plains, $4023.

✚Lockport, N. Y.—The contract for constructing 1.91 miles of the Shawnee Rd. has been awarded to the STAINTHORPE CO., Lockport, at $20,000.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received Aug. 3 by Douglas Mathewson, Borough Pres., for improving Victor St. from Van Nest to Rhinelander Ave., as follows: J. Di Menna, $8301; Burnside Contracting Co., $8024; Frank C. Rose, $8252; Thomas Tenore, $7740; Fred Sneider, $8423; P. Costello, $9845; De Minna & De Blasic, $8109; W. H. Callahan & Son, $8028; Delson Contracting Co., $8677; S. Amanna & Sullivan, $8995; Briggs & McLoughlin, $9893; Joseph Gallick, $9036. Noted July 29.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for regulating, grading, curbing and laying sidewalks on 81st St. from 19th to 21st Ave. has been awarded to M. PACONI, at $5002. Noted July 15 and 29.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Contracts for improving Skillman St. from Park to Myrtle Ave., Myrtle Ave. from Franklin to Nostrand Ave., Nostrand Ave. from Stockton St. to 75 ft. south of Willoughby Ave. and Vernon Ave. from Nostrand to Marcy Ave. has been awarded to the BOROUGH ASPHALT CO., $26,519. Noted July 22 and Aug. 5.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Contracts for improving East Ninth St. from Ave. O to Ave. Q, East 19th St. from Ave. L to Ave. M and East 39th St. from Ave. I to Ave. K, have been awarded to the BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton Ave., Brooklyn, at $11,779, $4428 and $8974 respectively. Noted July 29.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Aug. 18, by L. H. Pounds, Borough Pres., for regulating, grading, curbing and laying sidewalks on various streets.

✚New York, N. Y.—(Borough of Manhattan)—(Official)—Contracts have been awarded for improving 68th St. from Park to Fifth Ave. to the ASPHALT CONSTRUCTION CO., $7098; 100th St. from Central Park West to Amsterdam Ave. to the SICILIAN ASPHALT CO., $35,642; 100th St., from West End Ave. to Riverside Drive to the AZTEC ASPHALT CO., $4036; Riverside Drive from 177th to 181st St. to P. J. DUFFY, $6043. Noted July 22.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Aug. 19, by Maurice E. Connolly, Borough Pres., for improving Grand St. from the main line of the Long Island R.R. to Hoffman Blvd.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until noon, Aug. 17, by Calvin D. Van Name, Borough Pres., for constructing concrete sidewalks on both sides of Guyon Ave., from the Staten Island Ry. tracks to Mill Rd.

✚Niagara Falls, N. Y.—A contract for constructing about 500,000 sq.ft. concrete sidewalks has been awarded to THOMAS McPHERSON, Niagara Falls, at $0.115 per sq.ft.

Bayonne, N. J.—Bids will be received until Aug. 17 for paving a number of streets with asphalt.

★Elizabeth, N. J.—(Official)—Bids will be received until 3 p.m., Aug. 26, by Thomas E. Collins, City Engr., for resurfacing telford streets with 26,000 sq.yd. of asphalt concrete, and also for 8600 sq.yd. of new granite block pavement on a 6-in. concrete foundation.

Irvington, N. J.—Bids will be received until 2 p.m., Aug. 23, by the Board of Chosen Freeholders of Essex County, Newark, for improving Lyon Ave.

Jersey City, N. J.—Bonds for $250,000 have been sold, the proceeds of which will be used for improving the Newark Turnpike.

✚Newark, N. J.—The contract for paving South Orange Ave. with asphalt block has been awarded to RALPH SANGIOVANNI, at $27,826. Noted July 8 and 22.

New Brunswick, N. J.—Bids will be received until 2:30 p.m., Aug. 23, by the Board of Chosen Freeholders of Middlesex County for constructing the South Amboy-Keyport Rd., from the South Amboy City line to the Monmouth County line, in two sections: from South Amboy line to Morgan Station, with vitrified brick on concrete base; Morgan Station to Monmouth County line, bituminous concrete on old macadam base. Alvin B. Fox, Perth Amboy, is County Engr.

✚Weehawken, N. J.—The contract for improving Columbia Terrace by paving with asphalt block has been awarded to the CLINTON CONTRACTING CO., West Hoboken, at $9414. Noted July 15.

✚West New York, N. J.—Contracts have been awarded for paving 13th St. to HORNUNG & BLAIR, and Adams St. to PATRICK CURTIN.

✚Philadelphia, Penn.—Contracts have been awarded for paving as follows: Fairmount Ave., with asphalt, UNION PAVING & CONSTRUCTION CO., Thirteenth and Locust St., $40,939; Pasayunk Ave., with wood block, EDWIN H. Vare, Lincoln Bldg., $98,004; Fourth and Fifth St., with wood block, to McNICHOL PAVING & CONSTRUCTION CO., 1923 Cherry St., at $9874 and $10,147 respectively.

Georgetown, Del.—The contract for constructing 20 miles of concrete road from Georgetown to Shelbyville will soon be awarded. Charles Upham is Engr.

✚Baltimore, Md.—The contract for paving Hillen, Gold and East St. has been awarded to P. FLANIGAN & SONS, at $34,447.

Bel Air, Md.—(Official)—Bids will be received until noon, Aug. 16, by the Commissioners of Harford County for constructing a section of State Aid road in Harford County, about 1.3 miles. W. A. Wheeler is Clk. of the Comrs.

Hagerstown, Md.—(Official)—Bids will be received until noon, Aug. 17, by the Commissioners of Washington County for constructing a section of State Aid highway in Washington County. Barry M. Hartle is Clk.

✚Havre de Grace, Md.—According to press reports the City Council has awarded a contract to the BALTIMORE BLOCK & TILE CO., at $4895, for paving a number of streets.

Princess Anne, Md.—(Official)—Bids will be received by the Commissioners of Somerset County until noon, Sept. ... for constructing 2.01 miles of State Aid highway in Somerset County.

Independence, Va.—The Commissioners of Grayson County contemplate constructing 80 miles of road, at an estimated cost of $150,000.

✚Broad Oaks, W. Va.—(Clarksburg post office)—(Official)—The contract for grading, curbing and paving with brick on concrete base Bridge, Point, Harrison, Marshall, Main and Daisy St. and Buckhannon Pike has been awarded to CHARLES K. HOYT, Washington, D. C., at $32,322. Other bids were: Todd & Baker, $32,650; C. Kennedy & Sons, $32,866; Wayne Allen, $33,353; Keeley Bros., $34,895; Hoiner & Hoiner, $35,478. Noted June 24 and July 15.

Hinton, W. Va.—An election will be held Aug. 23 in Talcott District, Summers County, for the purpose of voting on the question of issuing $100,000 in bonds. Part of the proceeds will be used for constructing roads.

Bainbridge, Ga.—The Commissioners of Decatur County contemplate the construction of 100 miles of road, the estimated cost of which is $10,000.

Leesburg, Ga.—The Commissioners of Lee County plan to construct 15 miles of road. Bonds for the purpose were voted. Noted July 29.

Pinellas Park, Fla.—All bids received July 6 for paving various streets have been rejected. Noted July 1.

Cloverdale, Ala.—At a recent election the citizens voted in favor of issuing $30,000 in bonds, part of the proceeds of which will be used for improving streets.

✚Huntsville, Ala.—The City Commissioners have awarded the contract to the GULF PAVING CO., Chattanooga, Tenn., for paving West Clinton St.

Edwards, Miss.—At a recent election the citizens voted in favor of issuing $15,000 in bonds, the proceeds of which will be used for improving roads.

Jackson, Miss.—The citizens of the Second District of Hinds County voted in favor of issuing $15,000 in bonds, the proceeds of which will be used for constructing roads.

Hornbeck, La.—A special election will be held Aug. 17 to vote on the question of issuing $35,000 in bonds, the proceeds of which will be used for constructing roads in Sabine Parish Rd., District No. 3.

✚New Orleans, La.—(Official)—The contract for constructing a highway from the Rigolets to Chef Menteur has been awarded to A. G. THOMAS, New Orleans. Noted July 15 and Aug. 5.

Elizabethton, Tenn.—Press reports state that an election will be held Aug. 16 to vote on the question of issuing $365,000 in bonds, the proceeds of which will be used for constructing and improving roads in Carter County. Noted June 24.

Memphis, Tenn.—The City will pave South Main St. from Linden to Calhoun Ave. with wood block. J. H. Weatherford is City Engr.

Rutledge, Tenn.—Press reports state the Grainger County Court contemplates holding an election for the purpose of voting on the question of issuing $200,000 in bonds, the proceeds of which will be used for constructing roads.

Carrollton, Ky.—At an election held Aug. 5 the citizens voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for the construction of roads.

Lexington, Ky.—An election will be held Sept. 30 to vote on the question of issuing $300,000 in bonds, the proceeds of which will be used for road construction in Fayette County.

✚Louisville, Ky.—The contract for improving 34th St. north of Broadway has been awarded to the AMERICAN STANDARD ASPHALT CO., at $28,500.

✚Pineville, Ky.—A contract for grading six miles of road from Pineville to Calvin has been awarded to GREEN, VANDEVER & PURSIFULL, Pineville.

Winchester, Ky.—The Commissioners of Clark County plan the reconstruction of two miles of road under State-Aid law. The approximate cost of the work is $28,000.

✚Cincinnati, Ohio—Contracts have been awarded for paving a portion of Marshall Ave. with macadam to C. W. DANENHOWER, at $11,428; Herbert Ave. with macadam to HENKEL & SULLIVAN, at $5550.

Columbus, Ohio—(Official)—Bids will be received until noon, Aug. 27, by the Board of Trustees of the Ohio State University for constructing the roadway in Neil Ave.

✚Columbus, Ohio—Contracts have been awarded by Clinton Cowen, State Highway Comr., for improving a number of highways in various counties, as follows: Belmont County, Section M, Barnesville-Hendrysburg Rd., 2.56 miles of brick to the OHIO VALLEY CONSTRUCTION CO., Cincinnati, $55,997. Licking County, Columbus-Millersburg Rd., 2.71 miles of water-bound macadam to LAMB & McNEAL, Thornville, $24,800. Lorain County, Section D, Milan-Elyria Rd., 4.4 miles of waterbound macadam to KNEPPER, BURR & JACOBS, Tiffin, $28,500. Shelby County, Section C, Sidney-Wapakoneta Rd., 2.75 miles of waterbound macadam to JOHN F. HIPSKIND, Richmond, $26,800. Trumbull County, Section P, Youngstown-Sharon Rd., 3.84 miles of bituminous macadam to EVANS & WALTERS, Hubbard, $37,973. Noted Aug. 5.

✚Dayton, Ohio—The contract for paving King and Church St. with trinidad lake asphalt has been awarded to the ANDREWS ASPHALT PAVING CO., Hamilton, at $42,340.

Dayton, Ohio—(Official)—Bids will be received until noon, Aug. 13, by James E. Barlow, Dir. Pub. Ser., for paving Grand Ave. with brick.

✚**Martins Ferry, Ohio**—The contract for paving Adams St. from Broadway to Virginia St., Eighth St. from Hanover to Walnut St. and Catawba St. from Fayette to Vine St. has been awarded to ARCHER & SHAMMFELT, Bellaire.

Shaker Heights, Ohio—(Cleveland post office)—(Official)—Bids will be received until noon, Sept. 7, by C. A. Palmer, Village Clk. for improving Manchester Rd. from Coventry Rd. to South Woodland Rd. by grading, draining, curbing and paving with brick, concrete, asphalt or bituminous macadam and constructing sidewalks.

✚**Toledo, Ohio**—Contracts have been awarded for paving Garnet St. to the ASPHALT BLOCK CO., $5189; Lennox St., North Richardson Drive, Cherry St., to the PETERS BROS., $8046; Miami St. to HARRIS & TANSEY, $15,525.

✚**West Alexandria, Ohio**—The contract for paving Dayton and Main St. with brick on a 6-in. concrete foundation has been awarded to STROCTBECK BROS., Middletown, at $29,819.

✚**Auburn, Ind.**—A contract for constructing a road on the Spencer-Concord Township line, De Kalb County, has been awarded to N. B. PERTMAN, Marion, at $19,897.

✚**Greenfield, Ind.**—(Official)—A contract for constructing a gravel road in Center and Jackson Townships has been awarded to EVERETT McMAHAN, Fortville, Ind., at $7979.

✚**Jeffersonville, Ind.**—A contract for building a road in Oregon Township has been awarded to WORLE & PASS, Sellersburg, Ind.

✚**Winchester, Ind.**—A contract for constructing a road in Greene Township has been awarded to J. L. SINK, Bryant, at $12,296.

Deerfield, Mich.—(Official)—Bids will be received until Aug. 19 by Heman A. Pool, Township Clk., for constructing 12.5 miles of macadam road. Clarence Munson, Deerfield, is Township Highway Comr. Coleman & Tyler, Detroit, is Engr.

Howell, Mich.—Bids will be received until Aug. 17 by Lyle J. Pettibone, City Clk., for paving a portion of Grand River St. George Champs, Toledo, Ohio, is Engr.

Saginaw, Mich.—The City Council contemplates an expenditure of $150,000 for street pavement.

Joliet, Ill.—Bids will soon be received for paving Raynor Ave. from West Jefferson to Granite St. with asphaltic concrete. The estimated cost of the work is $20,000.

Woodstock, Ill.—(Official)—Bids will be received until 1 p.m., Aug. 14, by the Board of Local Improvements for constructing concrete pavements on Newell St., Madison St. and McHenry Ave. A. J. Olson is Pres. of the Bd.

✚**Glenwood, Iowa**—A contract for improving certain streets has been awarded to SAMUEL FRIEDMAN, Omaha, at approximately $20,000.

✚**Mason City, Iowa**—A contract for laying 16,000 sq.yd. of pavement and constructing 5500 lin.ft. of curb has been awarded to the BRYANT ASPHALT PAVING CO., Waterloo.

Shakopee, Minn.—Bids will be received until 11 a.m., Aug. 23, by A. J. Mayer, Audr. of Scott County, for improving State Road No. 13, at an estimated cost of $14,000.

✚**Ft. Scott, Kan.**—(Official)—A contract for paving three miles of the Coleman Rd. with macadam has been awarded to C. A. SIMONS, Ft. Scott, at $9490. Other bids were: Coe & Emmerson, Ft. Scott, $9675; A. L. Cook, Ottawa, $9491. Noted July 8.

Newton, Kan.—Bids will soon be received for paving portions of First, South, Second, South Main and North Main St.

Olathe, Kan.—Bids will be received until Sept. 8 for improving 52nd St. W. J. Moore is County Clk.

Lincoln, Neb.—(Official)—Bids will be received until 2 p.m., Aug. 18, by H. E. Wells, County Clk., for paving in District No. 8.

Omaha, Neb.—Bids will soon be received for paving portions of 38th St. with asphalt, Hickory St. with brick and Hickory, 34th, Francis, Ninth and Miami St. and Frontenelle Blvd. with concrete.

Bozeman, Mont.—Press reports state that bids will be received by C. A. Spieth, City Clk., for grading, curbing and paving in District No. 104.

✚**Lewistown, Mont.**—Contracts for paving in Special Improvement District No. 22 has been awarded to J. C. McGUIRE, at $8418, for concrete and at $10,427 for brick.

✚**De Soto, Mo.**—The contract for reconstructing and improving parts of the Bonne Terre-De Soto Rd. has been awarded to the DE SOTO CONSTRUCTION CO., De Soto, at $10,240.

Excelsior Springs, Mo.—A special election will soon be held to vote on the question of issuing $150,000 in bonds, the proceeds of which will be used for constructing rock roads within a radius of 10 miles of Excelsior Springs.

✚**Kansas City, Mo.**—A contract for paving 7450 sq.yd. of Cleveland Ave. from 31st to 35th St. with concrete has been awarded to the A. JAICKS PAVING CO., 510 American Bank Bldg., at $6258. Other bids were: E. F. Wilcox, 424 Dwight Bldg., $6258; Brown Bros., 11th and Muncie Blvd., Kansas City, Kan., $6301; F. P. McCormick, $6481; Kennedy Bros., 710 Midland Bldg., $6630; A. R. Mense, 4126 Norledge Pl., $6779; J. C. Lyle, 609 Grand Ave. Temple Bldg., $7156; James O'Connor & Son, 8000 East 11th St., $7156; M. J. Stack & Co., $7215; Cleveland Trinidad Paving Co., 1927 Vine St., $7599.

Maryville, Mo.—An election will be held Aug. 23 to vote on the question of issuing $35,000 in bonds. Part of the proceeds will be used for constructing roads.

✚**Conway, Ark.**—A contract for constructing 5500 yd. of concrete pavement in District No. 2 has been awarded to HOLTER & McCULLOUGH, Conway, at $4551.

Perryville, Ark.—The Commissioners of Perry County contemplate the construction of 30 miles of road, at an estimated cost of $90,000.

Russellville, Ark.—At a recent election the citizens of Road Improvement District No. 1 voted in favor of issuing $150,000 in bonds, the proceeds of which will be used for constructing a macadam road from Russellville to Hector.

✚**Russellville, Ark.**—A contract for constructing 26 miles of macadam road in Road District No. 1 has been awarded to W. C. JUCKSCH, Little Rock, at $100,000.

Houston, Tex.—(Official)—Bids will be received until 10 a.m., Aug. 16, by the Commissioners of Harris County for resurfacing the Wallisville Rd. from Cushing Ave. to Hunting Bayou.

Lampasas, Tex.—The City Council will construct about eight miles of concrete sidewalks.

Livingston, Tex.—At a recent election the citizens voted in favor of issuing $17,000 in bonds, the proceeds of which will be used for street improvements.

Port Lavaca, Tex.—At a recent election the citizens voted in favor of issuing $17,000 in bonds, the proceeds of which will be used for improving streets. Noted July 15.

Temple, Tex.—The City Council contemplates an expenditure of $200,000 for street paving.

Woodville, Tex.—An election will be held Aug. 28 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing and improving roads in Road District No. 1.

Eufaula, Okla.—An election will be held Aug. 20 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for constructing roads.

Deming, N. M.—An election will be held Sept. 14 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing highways.

✚**Port Angeles, Wash.**—A contract for grading and constructing concrete sidewalks in the eastern part of the city has been awarded to ANTONIO DELGUZZO and C. W. COIT, at $95,805.

✚**Seattle, Wash.**—The contract for improving Permanent Highway No. 11 has been awarded to the ALBIEN ENGINEERING CO., American Bank Bldg., Seattle, at $40,328.

Hillsborough, Calif.—At a special election the citizens voted in favor of issuing $40,000 in bonds, the proceeds of which will be used for street improvements.

Los Angeles, Calif.—Press reports state that the City Council plans to pave Pacific Ave.

✚**Sacramento, Calif.**—The City Commission has awarded a contract for street paving to the CLARK-HENERY CONSTRUCTION CO., at $10,000.

✚**San Francisco, Calif.**—The Board of Public Works has awarded a contract for the paving of Vermont St. from 17th to Mariposa St., to FLINN & TREACY, at $7204.

Santa Barbara, Calif.—Press reports state an election will be held in Santa Barbara County, Aug. 30, to vote on the question of issuing $893,000 and $95,000 in bonds, the proceeds of which will be used for road improvements and constructing the Cuyuna Rd. respectively.

INDUSTRIAL WORKS

Boston, Mass.—Bids are being received for the construction of a $40,000 ice storage building for the Boston Ice Co. Mortensen & Co., 405 Lexington Ave., New York, N. Y., is Arch. and Engr.

Brockton, Mass.—The Diamond Shoe Co. plans the construction of a four-story, 40x175-ft. factory on Spark St., to cost $15,000. W. F. Barlow, 80 North Main St., is Arch.

✚**Greendale, Mass.**—(Worcester post office)—The FISKE-CARTER CONSTRUCTION CO., 11 Foster St., has been awarded the contract for the construction of a one-story, 160x200-ft., brick and reinforced-concrete factory on New Bond St. for the Heald Machine Co. Lockwood, Green & Co., 60 Federal St., Boston, Mass., is Engr.

✚**Holyoke, Mass.**—The contract for the construction of an addition to the plant of the American Writing Paper Co., Main St., has been awarded to the CASPER-RANGER CONSTRUCTION CO.

Lowell, Mass.—The Wamesit Power Co. will build a 173x185-ft. reinforced-concrete garage at Watson and Whipple St. The estimated cost is $12,000.

Lowell, Mass.—The Waterhead Mills, Lawrence St., will build a four-story, 52x83-ft. addition to its plant to cost $20,000.

✚**Springfield, Mass.**—FRED T. LEY CO. has been awarded the contract for the construction of a one-story brick and steel storehouse for the New England Westinghouse Co. The estimated cost is $37,000.

✚**Springfield, Mass.**—The Somers Creamery Co. has awarded the contract for the construction of a two-story brick plant on Locust St. to E. F. CARLSON, 106 Granada Terrace. The estimated cost is $70,000. B. E. Geckler, 335 St. James Ave., is Arch.

Bridgeport, Conn.—The Lake Torpedo Boat Co. has purchased a 22-acre site and plans the construction of a plant for the manufacture of submarines.

Bridgeport, Conn.—The Bridgeport Brass Co. plans the construction of a one-story addition to its plant to cost approximately $70,000.

✚**Hartford, Conn.**—A. L. HILLS, 847 Main St., has been awarded the contract for the construction of a four-and-one-half-story, 83x129-ft. brick storehouse on Main near Windsor St. for Garber Bros., Pleasant St. George Zunner is Arch. The estimated cost is $30,000. Noted Mar. 25.

New Haven, Conn.—(Official)—Bids will be received until Sept. 1 by R. W. Foote, Arch., 424 Chamber of Commerce Bldg., for the construction of a three-story, 60x75-ft. brick and steel garage for Cowles Tolman. Noted Aug. 5.

Buffalo, N. Y.—Revised bids are being received for the construction of a three-story, 30x150-ft. storehouse for Adam J. Menges, 224 Washington Market. Joseph J. Geigand, 346 Herman St., is Arch. The estimated cost is $12,000. Noted July 1.

✚**New York, N. Y.**—(Borough of Brooklyn)—THE NATIONAL BRIDGE WORKS, 1123 Broadway (Borough of Manhattan), has been awarded the contract for the construction of a one-story, 100x150-ft. reclaiming plant for the By-Products Reclaiming Co., 129 Front St. The estimated cost is $10,000.

✚Niagara Falls, N. Y.—The MONARCH ENGINEERING CO., Chamber of Commerce Bldg., Buffalo, N. Y., has been awarded the contract for the construction of storage bins for the Shredded Wheat Co. The estimated cost is $20,000.

✚North Tonawanda, N. Y.—The Buffalo Bolt Co. has awarded the contract for the construction of additions to its plant at Oliver St. and the New York Central and Erie R.R. tracks, to MORRIS & ALLEN, Builders Exchange, Buffalo, N. Y. The estimated cost is $250,000.

Peekskill, N. Y.—Bids were received for the construction of a storage house at the State Camp, as follows: Wiberley & Baxter, Peekskill, $22,896; F. E. Young, Syracuse, $25,588; James C. Nolan, Albany, $23,940; Alba Building Co., Albany, $26,587; Peekskill Construction Co., Peekskill, $27,437; Catskill Supply Co., Catskill, $19,890; Peter Keeler Building Co., Albany, $24,522; L. F. Bannon Plumbing & Heating Co., Kingston, $19,966.

✚Port Chester, N. Y.—F. R. Davis, Mgr., Wilford Hall Laboratories, has awarded the contract for the construction of a three-story, 83x103-ft. chemical factory to SULLIVAN & McNALLY, Paterson, N. J. Noted Apr. 22 and 29.

✚Split Rock, N. Y.—The Semit Solvay Co. has awarded the contract for the construction of two storage buildings to T. H. McHALE & SON, Cahill Bldg., Syracuse, N. Y. Taylor & Bonton, Gurney Bldg., Syracuse, N. Y., is Arch.

Tarrytown, N. Y.—Bids will soon be received for the construction of a two-story factory for the Chevrolet Automobile Co. W. C. Durant, 816 11th St., New York, N. Y., is Pres. The estimated cost is $40,000.

✚West Sand Lake, N. Y.—The contract has been awarded to J. J. FINN & SONS, Albany, N. Y., for the construction of a three-story, 66x110-ft. factory for the McLaren Knitting Co. C. G. Ogden, 159 State St., Albany, N. Y., is Arch. Noted June 24.

Absecon, N J.—The contract will soon be awarded for the construction of a two-story, 50x150-ft. and a one-story, 50x70-ft. building for the Acme Film Producing Co., care of A. Jacoby, Sheen Bldg., Atlantic City, N. J. J. Vaughn Mathis, Guarantee Trust Bldg., Atlantic City, is Arch. The estimated cost is $25,000.

✚Bound Brook, N. J.—The Cott-a-lap Co., Somerville, N. J., has awarded the contract for the construction of three 40x80-ft. buildings adjoining the Central R.R. to RUNYON FIELD.

Bound Brook, N. J.—The Independent Chemical Co., 72 Front St., New York, N. Y., plans the construction of a factory fronting on the Central R.R. Warren C. King is Pres.

Hammondton, N. J.—The contract will soon be awarded by Charles H. Strunk, Treas., Figueroa Cut Glass Co., for the construction of a two-story, 32x110-ft. factory to cost $12,000. William S. Hewitt, Guarantee Trust Bldg., Atlantic City, N. J., is Arch.

✚Newark, N. J.—(Official)—J. Wiss & Sons Co., 31 Littleton Ave., has awarded the contract for the construction of a four-story, 50x75-ft. addition to its plant to EUSTICE BROS., 45 Clinton St. The estimated cost is $15,000. Frederick A. Phelps is Arch.

Plainfield, N. J.—The Sauer Motor Co. plans the construction of a two-story, 120x120-ft. brick and concrete addition to its plant, to cost $30,000. John G. Brown, Witherspoon Bldg., is Arch. Noted May 6 and May 20.

Trenton, N. J.—The Hill Refrigerator Co. will soon award the contract for the construction of a one-story, 100x500-ft. plant, at an estimated cost of $40,000. Abram Swan, Jr., Broad Street Bank Bldg., is Arch.

Philadelphia, Penn.—The L. H. Gilmer Co., 52 North Seventh St., plans the construction of a two-story, 50x150-ft. factory. The estimated cost is $25,000. Bart Tourison, Land Title Bldg., is Arch.

Philadelphia, Penn.—John Scott & Co. will build a four-story, 50x122-ft. warehouse at American and Diamond St.

✚Philadelphia, Penn.—BARCLAY, WHITE & CO., Perry Bldg., has been awarded the contract for the construction of a one- and two-story, 50x480-ft. freight house for the Pennsylvania R.R. Co. William H. Cookman, Broad St. Station, is Arch. The estimated cost is $75,000.

Philadelphia, Penn.—The Walls Ice Mfg. Co. will build a two-story, 100x100-ft. factory at Ninth and Master St.

Philadelphia, Penn.—The contract will soon be awarded for the construction of a one-story, 142x165-ft. factory at Ninth and Bailey St. for the Wood Mfg. Co. Peuckert & Wunder, 310 Chestnut St., is Arch.

Reading, Penn.—(Official)—Bids are being received by William S. Markley for the construction of a $50,000 plant at Penn and Queen St. Noted July 29.

✚Baltimore, Md.—THE CONSOLIDATED ENGINEERING CO., Calvert Bldg., has been awarded the contract for the construction of two one-story, 52x86-ft. factories. The estimated cost is $15,000. James R. Edmunds, Jr., 12 East Read St., is Arch.

✚Baltimore, Md.—The C. J. Youse Co., Inc., 23-25 South Gay St., has awarded the contract for the construction of a three-story, 100x130-ft. factory to WALTER E. BURNHAM, 403 Law Bldg. Archer & Allen, 3 East Lexington St., is Arch. The estimated cost is $50,000.

Alexandria, La.—The Federal Oil & Refining Co. will build a refinery, estimated to cost $120,000. W. W. Whittington, Mayor of Alexandria, is Pres.

Maysville, Ky.—The Independent Loose Leaf Tobacco Co. contemplates the construction of a one-story warehouse to cost $15,000. W. H. Robb is Secy.

Maysville, Ky.—The Maysville Cotton Mills plans the construction of a one-story warehouse to cost $10,000. R. A. Cochran, 237 West Second St., is Secy.

Ashland, Ohio—Hess & Clark plans the construction of a three-story, 55x90-ft. factory to cost $30,000. Vernon Redding, 301 Bird Bldg., is Arch. W. Thomas is Mgr.

Cincinnati, Ohio—The City Ice Delivery Co., Canal and Race St., will build a two-story, 100x100-ft. ice plant to cost $75,000. Lester Blair is Secy. B. T. Wisenall, 518 First National Bank Bldg., is Arch.

✚Cincinnati, Ohio—The H. & S. Pogue Co., Fourth and Race St., has awarded the contract for the construction of a $300,000 addition to its warehouse to the STONE WEBSTER ENGINEERING CO. Hake & Kuck, Telephone Bldg., is Arch.

Cincinnati, Ohio—The R. K. Le Blond Machine Tool Co., 4609 Eastern Ave., plans the construction of a plant near the Norfolk & Western Ry. to contain 500,000 sq.ft. of floor space. Zettel & Rapp, Johnston Bldg., is Arch.

Cleveland, Ohio—The Halle Bros. Co. has purchased a site at East 22nd and Chester St., and plans the construction of a storage building. Estimated cost, $50,000.

Cleveland, Ohio—The Lederer Milling Co., 6318 Kinsman Rd., S. E., will build a mill on Riverbed St., to cost about $200,000.

Cleveland, Ohio—Plans have been prepared by Marriott, Allen & Hall, Arch., Hayden-Clinton Bldg., Columbus, Ohio, for the construction of a two-story laundry at the Cleveland State Hospital. The estimated cost is $40,000.

Cleveland, Ohio—Plans have been completed by the Forest City Engineering Co., 515 Hippodrome Bldg., for the construction of a warehouse at Lakeside and East 22nd St. for the Union Paper & Twine Co., 115 St. Clair Ave. Estimated cost, $100,00.

✚Cleveland, Ohio—(Official)—The contract for the construction of a five-story, 200x200 ft., brick and reinforced-concrete factory for the B. F. Goodrich Co., Akron, Ohio, has been awarded to the CARMICHAEL CONSTRUCTION CO., Akron, Ohio. The Osborn Engineering Co., 740 Engineers Bldg., is Arch. Noted July 22.

Greentown, Ohio—The Greentown Aluminum Co. will build a one-story, 36x114-ft. factory to cost $10,000. G. B. Townsend is Secy. W. C. Owen & Co., 449 Leader-News Bldg., is Arch.

✚Detroit, Mich.—The contract for the construction of a four-story factory at McKinstry Ave. and the Wabash R.R., for the Paige-Detroit Motor Car Co., has been awarded to the ALBERT A. ALBERECHT CO. John Scott & Co. is Arch.

✚Detroit, Mich.—The contract for the construction of a two-story factory at East Grand Blvd. and Oakland Ave. for the Schlieder Mfg. Co., 45 East Fort St., has been awarded to W. S. POCOCK. Preston, Brown & Walker, is Arch. Noted July 15.

Grand Rapids, Mich.—Bids are being received by George T. Appleyard, Arch., 415 Widdicomb Bldg., for the construction of a two-story, 111x165-ft. warehouse for Walter Clark, Ionia and Prescott St.

✚Chicago, Ill.—The contract for the construction of a five-story addition to the warehouse of Anderson Bros., 945 Belmont Ave., has been awarded to the H. D. MORELAND CO., 105 North Clark St. S. H. Dunford, 10 South La Salle St., is Arch. Noted June 24.

Chicago, Ill.—Bids are being received by George C. Nimmons, Arch., 122 South Michigan Ave., for the construction of a six-story addition to the printing building of Sears, Roebuck & Co.

Chicago, Ill.—The Union Transfer, Storage & Bldg. Co., recently incorporated, will build a six-story, 95x160-ft. reinforced-concrete storage building on East Wilson St. Moores & Dunford is Arch.

Milwaukee, Wis.—The Phoenix Knitting Co. plans the construction of a $40,000 plant at Jackson and Chicago St.

✚Sioux City, Iowa—DUBEL & ANDERSON, 514 Jackson St., has been awarded the contract for the construction of a three-story, 40x126-ft. brick factory at Perry Creek and West Third St. for L. W. Mallory. The estimated cost is $20,000.

✚Sioux City, Iowa—The contract for the construction of a two-story, 84x150-ft. warehouse for W. L. Ogden, 307 Pearl St., has been awarded to HOUX & SON, Second and Water St. F. E. Colby, 510 Davidson Bldg., is Arch. The estimated cost is $10,000.

✚Minneapolis, Minn.—C. H. Wheeler & Son, 820 Palace Bldg., has awarded the contract to JAMES LECK & CO., 311 South Seventh St., for the construction of a six-story warehouse.

Omaha, Neb.—Plans have been prepared by Albert Kahn, Arch., 58 La Fayette Ave., Detroit, Mich., for the construction of a six-story, 130x160-ft. reinforced-concrete assembling plant at 16th and Cumming St. for the Ford Motor Co., Detroit, Mich. The estimated cost is $275,000.

✚Omaha, Neb.—The National Printing Co., 509 South 12th St., has awarded the contract for the construction of a plant to KIENE & MAYSTRICK. The estimated cost is $40,000. W. E. Stockham, 426 Range Bldg., is Arch. Noted June 17.

Kansas City, Mo.—The Shukert Fur Co., 1113 Grand Ave., will soon start work on the construction of a five-story, 75x166-ft. brick warehouse on Warwick Blvd., to cost $32,000, and a four-story, 75x115-ft. brick warehouse on Walnut St., to cost $25,000. E. Shukert is in charge.

✚Kansas City, Mo.—The Bachelor Laundry, 2028 Broadway, has awarded the contract for the construction of a two-story, 50x120-ft. brick laundry to S. D. EICHE, 3035 Flora Ave., at $20,000. Madorie & Birdsall, 832 Reserve Bank Bldg., is Arch. Noted June 17.

✚Kansas City, Mo.—The contract for the construction of a two-story, 32x137-ft. brick building at 2-4-6 West 27th St. for the Higby Cleaning & Dyeing Co., Lincoln, Neb., has been awarded to the GEORGE H. SIEDHOFF CONSTRUCTION CO., 301 Finance Bldg. Smith, Rea & Lovitt, 601 Finance Bldg., is Arch.

Kansas City, Mo.—Bids are being received by J. Oliver Hogg, Arch., 946 New York Life Bldg., for the construction of a two-story, 49x117-ft. warehouse for the Freeman & Duncan Realty & Transfer Co.

Houston, Tex.—Plans have been prepared by Moore & Dunford, Arch., Chicago, Ill., for the construction of an eight-story, 160x365-ft. warehouse for the Houston Terminal Warehouse Co., A. F. Coleman is Mgr. The estimated cost is $800,000.

Laredo, Tex.—Samuel Mackin, Mgr., Consumers' Ice Co., is receiving bids for the construction of a two-story, 50x75-ft. ice and cold-storage plant. The estimated cost is $12,000. The McCandlish Engineering Co., 724 Midland Bldg., Kansas City, Mo., is Arch.

San Benito, Tex.—Plans have been prepared for the construction of a $15,000 plant for the San Benito Creamery Co.

Salt Lake City, Utah—The Jennings-Hanna Investment Co. will build a three-story, 137x166-ft. reinforced-concrete warehouse at Second and South St., at an estimated cost of $90,000. A. Kletting is Arch.

Seattle, Wash.—The Carstens Packing Co. will build a four-story, 100x500-ft. warehouse at an estimated cost of $50,000. P. S. Coombs & Son is Arch.

†San Francisco, Calif.—The American Can Co., Mills Bldg., has awarded the contract for the construction of a plant at Kentucky and 22nd St. to the LINDGREN CO., at $199,000. Noted Feb. 18.

Regina, Sask.—The Robert Simpson Co., Toronto, Ont., will build a warehouse at an estimated cost of $150,000.

Chatham, Ont.—The Defiance Iron Works will expend $20,000 for improvements to its plant.

Toronto, Ont.—The Canada Metal Co., Fraser Ave., will build a $15,000 addition to its factory.

Toronto, Ont.—The Dunlop Tire Co. will build a three-story addition to its factory, to cost $30,000.

FEDERAL GOVERNMENT WORK

Steerage Barracks and Storehouse—Portland, Maine—Bids will be received until 3 p.m., Sept. 2, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the steerage barracks and storehouse for the U. S. quarantine station at Portland.

Hot-Water System—Newport, R. I.—Bids will be received until 11 a.m., Aug. 28, by William M. Smith, Act. Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for installing a hot-water piping system at the naval hospital, Newport.

Buildings—Ft. Mifflin, Penn.—Bids will be received until 11 a.m., Aug. 21, by William M. Smith, Act. Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing buildings at the U. S. naval magazine, Ft. Mifflin.

Mechanical Equipment—Baltimore, Md.—Bids will be received until 3 p.m., Aug. 31, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for mechanical equipment, except elevators, for the U. S. immigration station.

★Steel Cylinder Gates—Washington, D. C.—Bids will be received until 2 p.m., Sept. 2, by A. P. Davis, Ch. Engr., U. S. Reclamation Service, Washington, for furnishing four steel cylinder gates and accessories for the spillway at Elephant Butte Dam, Rio Grande project, New Mexico and Texas.

†Mechanical Equipment—Washington, D. C.—Contracts have been awarded for mechanical equipment for the Interior Department Building as follows: JOHN H. PARKER CO., mechanical equipment, WILLIAM GORDON CORP., elevators. Noted July 29.

★Dredging—Norfolk, Va.—Bids were received Aug. 4, by the Engineer Officer, Norfolk, for dredging inland waterway from Norfolk to Beaufort Inlet, N. C., a total of 850,000 cu.yd., place measurement, as follows: Norfolk Dredging Co., Norfolk Dredging Co., Norfolk, 19.65c.; Day & Zimmerman, 611 Chestnut St., Philadelphia, Penn., 20c.; Atlantic, Gulf & Pacific Co., Park Row Bldg., New York, N. Y., 21.9c.; Maryland Dredging & Contracting Co., Fidelity Bldg., Baltimore, Md., 23½c.; F. Sanford Ross, Inc., Jersey City, N. J., 14c.; Coastwise Dredging Co., Norfolk, 15¼c.; Central Dredging Co., Cleveland, Ohio, 17½c.; and Bowers Southern Dredging Co., Galveston, Tex., 16c. Noted July 8.

†Post Office—Opelika, Ala.—The contract for the construction of a post office at Opelika has been awarded to GEORGE A. CLAYTON, Atlanta, Ga., at $84,364. Noted June 10 and July 22.

★Shore Protection—Rock Island, Ill.—Bids were received July 31 for shore-protection work on various sections of the Mississippi River. Low bidders were as follows: Kirchner Contracting Co., Dubuque, Iowa; Builders' Sand & Gravel Co., Davenport, Iowa; A. V. Fetter Co., Quincy, and J. W. McMurry Contracting Co., Kansas City, Mo. Noted July 8.

Post Office—Ft. Atkinson, Wis.—The low bidder for constructing a post office at Ft. Atkinson is the Clark Construction Co., Danville, at $39,350 for limestone and $41,100 for sandstone. Noted July 1.

★Earth Work—Ft. Laramie, Wyo.—Bids will be received until 2 p.m., Sept. 8, by A. P. Davis, Ch. Engr., U. S. Reclamation Service, Tramway Bldg., Denver, Colo., for constructing earthwork on about ten miles of main canal at Ft. Laramie unit.

Floors—St. Louis, Mo.—Bids will be received until 3 p.m., Sept. 1, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing new terrazzo floors in the U. S. post office at St. Louis.

★Screening and Weatherstripping—Ft. Bliss, Tex.—Bids will be received until 11 a.m., Sept. 2, by the Quartermaster, El Paso, for screening and weatherstripping for about 35 quarters and barracks at Ft. Bliss.

Post Office and Court House—Tulsa, Okla.—Bids will be received until 3 p.m., Sept. 27, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U. S. post office and court house at Tulsa.

Buildings—Bremerton, Wash.—Bids will be received until 11 a.m., Sept. 11, by William M. Smith, Act. Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing buildings at the Naval Magazine, Puget Sound.

Wharf Extension—San Francisco, Calif.—Bids will be received until 11 a.m., Aug. 21, by H. R. Stanford, Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for extending the wharf at the Naval training station, San Francisco.

Freight Elevators—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., Aug. 28, by William M. Smith, Act. Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for installing three hydro-pneumatic freight elevators at the Naval station.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Aug. 13, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Aug. 20, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

MISCELLANEOUS

†Dredging—Boston, Mass.—According to press reports the contract for dredging about 15,000 cu.yd. in the Abejona River has been awarded to COLEMAN BROS., Chelsea, at $13,500. Noted July 22.

†Dredging—Boston, Mass.—The contract for dredging at Wellfleet, Barnstable and Nobscussett Harbors, has been awarded to JOHN H. GERRISH. Noted Aug. 5.

†Enlarging Breakwater—Boston, Mass.—The contract for enlarging the breakwater at Vineyard Haven Harbor, Tisbury, has been awarded to the BAY STATE DREDGING CO., LTD., 247 Atlantic Ave., Boston, at $1.34 for each ton and $5 for each clamp. Other bids were from Rockport Granite Co., $1.43; $5.60, and E. S. Belden & Sons, $1.43; $7. William F. Williams, State House, is Ch. Engr.

†Coal Pocket—Boston, Mass.—(Correction)—We have been advised by Adolph Suck, Consult. Engr., Hyde Park, that the following contracts have been awarded in connection with the construction of the coal pocket for Batchelder Bros.: Foundations to W. A. NORTON CO., South Boston; steel structure, BOSTON BRIDGE WORKS; machinery contract, JOHN H. PROCTOR CO., Boston. Noted July 29.

†Coal Pocket—Palmer, Mass.—(Official)—The contract for the construction of the reinforced-concrete coal pocket at Palmer has been awarded to the FLYNT BUILDING & CONSTRUCTION CO., Palmer, Mass. Adolph Suck, Arlington St., Hyde Park, Mass., is Consult. Engr.

Guard Railing—Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Comr., until 2 p.m., Aug. 16, for constructing about 14,264 lin.ft. of standard wood guard railing.

River Improvement—Jamestown, N. Y.—Plans are being prepared by F. P. Williams, Rochester, Division Engr., State Dept. of Pub. Works, for improving the Chadokoin River. An appropriation of $100,000 has been made for the work. Frank M. Williams is State Engr.

Elimination of Grade Crossing—New York, N. Y.—(Borough of Bronx)—(Official)—At a joint meeting of the First and Second Districts of the Public Service Commission an order was passed providing for the removal of grade crossings and other obstructions on the lines of the New York & Harlem R.R. (New York Central) and the New York, New Haven & Hartford R.R. near 241st St. It also orders a shifting of the tracks and the construction of a viaduct to carry the street. The New York & Harlem Co. is ordered to construct a new station at 241st St. The entire cost, except that of the construction of the new viaduct, shall be paid by the railroad companies, the cost of the viaduct being apportioned according to the provisions of the Railroad Law.

†Field House—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the general construction and completion of a field house at the Betsy Head Memorial Playground, Brownsville, has been awarded to T. J. BUCKLEY, 303 Fifth Ave., New York, at $14,995. Noted June 24 and July 8.

Dredging—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received for dredging in Newtown Creek Canal at and in the canal and basin included within the boundaries of Johnson, Montrose, Morgan Ave. and Varick Ave., also in the Stagg St. basin, and in Newtown Creek near the intersection of Scott and Metropolitan Ave.: William Beard, $7500; R. G. Packard, $7800; John & Joseph McSpirit, 118 Wayne St., Jersey City, N. J., $7200. Noted July 29.

Riprap—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by Cabot Ward, Pres. Park Board, until 3 p.m., Aug. 19, for furnishing and placing 10,000 tons of riprap along the Shore Road, between Latting Place and Ft. Hamilton.

Fence—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 3 p.m., Aug. 19, by Cabot Ward, Pres. Park Board, Municipal Bldg., for erecting a wrought-iron fence and settling artificial granite gate posts around Morningside Park.

Road Supplies—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Cabot Ward, Pres. Park Board, until 3 p.m., Aug. 19, for furnishing and delivering the following: 75,000 gal. of refined coal tar; 75,000 gal. of tar road oil; 5500 cu.yd. of trap-rock screenings; 3000 cu.yd. of grits.

Duct Line—New York, N. Y.—(Official)—The following are the bids received by the Public Service Commission for the construction of the duct line for the Queensboro Rapid Transit railroad: Goodwin Contracting Co., $45,750; James A. McElroy, $50,617; Kingsbridge Contracting Co., $42,000; Soraci Contracting Co., $42,897; James O'Leary, $54,000; Thomas Crimmins Contracting Co., $49,948; T. H. Reynolds Construction

Co., $45,416; E. C. Moore, (no total); J. M. Gest, $52,000; W. A. Mitchell, $39,000; Beaver Engineering Co., $38,918; Hanover Contracting Co., $39,000; Knight & DiMicoo, 4441 Park Ave., New York, $38,887; H. E. Fox Construction Co., $43,000.

★**Subway Station**—New York, N. Y.—(Borough of Queens)—(Official)—The following are the bids received by the Public Service Commission for the construction of the station finish on Section No. 2, Route Nos. 36 and 37 of the Astoria Elevated R.R.: Charles Meads & Co., 38 Park Row, New York, $268,102; Snare & Triest Co., $274,096; Simon Russek, Inc., $285,250. Noted July 15.

★**Plumbing and Drainage**—Ossining, N. Y.—(Official)—Bids will be received by John B. Riley, Supt., State Prisons, Capitol, Albany, until 2:30 p.m., Aug. 20, for plumbing and drainage in the power house at Sing Sing prison.

Park Improvements—Jersey City, N. J.—The Board of Chosen Freeholders of Hudson County has sold $300,000 in bonds for the construction and improvement of county parks.

✚**Stone Wall**—Ford City, Penn.—The contract for constructing about 3000 ft. of stone wall along the Allegheny River, for the Pittsburgh Plate Glass Co., has been awarded to the FOUNDATION CO., Woolworth Bldg., New York, N. Y.

✚**Plaza**—Philadelphia, Penn.—The contract for constructing the Broad St. plaza, has been awarded to E. H. VARE, Lincoln Bldg., at $123,000. Noted June 24 and July 22.

✚**Steamers**—Wilmington, Del.—The contract for the construction of two tank steamers, for the Standard Oil Co., and one steamer for the Wilson Line, has been awarded to the HARLAN & HOLLINGSWORTH CORPORATION, Wilmington. The estimated cost is $1,250,000.

Drainage—Anderson, S. C.—The Drainage Commissioners of Rocky River Drainage District No. 1 have sold $19,500 in drainage bonds. Watkins & Allen, Bleckley Bldg., Anderson, is Attorney.

Motor Fire Apparatus—Atlanta, Ga.—The City Council has decided to hold an election to vote on the issuance of $133,500 in bonds for the purchase of motor fire apparatus.

✚**Pier and Warehouse**—Augusta, Ga.—The contract for constructing a reinforced-concrete pier and warehouse has been awarded by the City Council to the GEORGIA CONTRACTING CO., Augusta, at $27,958. Nisbet Wingfield is City Engr.

Wharf Improvement—Jacksonville, Fla.—(Official)—Contracts will soon be awarded for the construction of about 6074 lin.ft. of wharf front at Commodores Point on the St. Johns River, for the Commodores Point Terminal Co. The wharves will be of the longitudinal type, paralleling the channel. The improvement includes 304 lin.ft. of wooden construction, 700 lin.ft. of steel sheet piling, and about 5070 lin.ft. of concrete steel. All the frontage will be filled in solid with sand dredged from the St. Johns River. The river will be dredged to 30 ft. along the face of the wharves and to 12 ft. in the slip at each end. The top of the fill will be 4 ft. above mean low tide. Herbert D. Mendenhall, 216 Parker St., Jacksonville, is Consult. Engr.

Excavation—Palm Beach, Fla.—Press reports state that bids will be received by the Florida East Coast Hotel Co. for 5000 to 15,000 cu.yd. rock excavation, 30,000 to 80,000 cu.yd. muck and sand excavation, 160,000 cu.yd. hydraulic sand fill (suction works). J. R. Brooks, Palm Beach, is Engr. in Charge.

★**Drainage Work**—Tallahassee, Fla.—(Official)—Bids will be received by the Board of Commissioners, Everglades Drainage District, until 10 a.m., Aug. 24, for the construction of three locks and drains.

Drainage—Abbeville, Miss.—At a recent election the citizens voted in favor of a bond issue of $21,000 for the drainage of several thousand acres in Younds Coulee Drainage District.

Drainage—Gueydan, La.—Preliminary plans and surveys for the construction of ditches, etc., for the drainage of 65,000 acres of low land here are being made. W. V. Reed, City Engr., Morgan City, La., is Superv. Engr. Noted Aug. 5 under Corydon, Iowa.

Levees—New Orleans, La.—Bids will be received by the State Board of Engineers, until Aug. 19, for levee work in various districts.

Levee—Greenville, Miss.—Bids will be received by A. L. Thompson, Ch. Engr., Board of Mississippi Levee Commissioners, until Aug. 17 for levee work, as follows: Upper Vermillion Spur Enlargement, 24,000 cu.yd.; Black Bayou Spur Enlargement, 7000 cu.yd.; Upper Avon Banquette Enlargement, 23,000 cu.yd.; Lower Avon Banquette Enlargement, 20,000 cu.yd.; Moon Lake Enlargement, 200,000 cu.yd.; Mayersville to Baleshed Enlargement, 262,000 cu.yd.

✚**Raising Steamer**—Chicago, Ill.—The contract for raising the steamer "Eastland," which recently capsized in the Chicago River, has been awarded to the DUNHAM TOWING & WRECKING CO., Chicago, at $34,500.

Fireboat Hull—Cleveland, Ohio—Bids will be received until Aug. 25, by A. A. Benesch, Dir. of Pub. Ser., City Hall, for the construction of a hull for the fireboat, "Clevelander." The estimated cost is $26,000.

Park Improvements—Cleveland Heights, Ohio—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon Sept. 7, for the purchase of $100,000 in bonds for the improvements of parks.

✚**Memorial**—Niles, Ohio—The contract for the construction of a memorial to President William McKinley has been awarded to JOHN A. PARKER CO., 315 Fourth Ave., New York, N. Y., at about $240,000. Georgia marble will be used in the construction.

Park Improvements—Rocky River, Ohio—An election will be held in November, to vote on issuing $35,000 in bonds for park improvements.

Channel—East St. Louis, Ill.—It is reported that bids will be received by the East Side Levee and Sanitary District for constructing a channel for Cohokia Creek. The work requires about 115,000 cu.yd. of excavation and the clearing of about 20 acres. G. T. Tarlton is Pres.

Piers, Etc.—Evanston, Ill.—Bids will be received by John H. Moore, Comr. of Pub. Works, until Aug. 16, for the construction of 18 piers. Noted June 3.

Improvement to Creek—Sioux City, Iowa—The Board of Supervisors has decided to deepen and widen Wolf Creek, for a distance of two miles. The estimated cost is $17,000.

✚**Ditches**—Marshall, Minn.—Contracts have been awarded to the following by the County Commissioners for ditch construction: Ditch 15, to HECTOR COOLSAER, Marshall, at $9038; Ditch 16 and Ditch 13 (tile work), to ANDERSON & ARTHUR, Tracy, at $55,600 and $18,047 respectively; Ditch 13 (open work), to AJAX DREDGE CO., Glencoe, at $6800. E. S. Shepard is County Audr. Noted July 22.

Ditch—Montevideo, Minn.—Bids will be received by J. J. Stennes, Audr., until 2 p.m., Aug. 18, for constructing Ditch No. 18. The cost will be about $29,000.

✚**Ditches**—Windom, Minn.—The following contracts have been awarded by the County Commissioners for the construction of ditches: No. 9 to L. P. ALEXSEN, Clear Lake, Iowa, at $110,000; No. 13 to JOHN PEDERSEN, Clear Lake, Iowa, at $3417; No. 14 to MICHELS & SANDLIN, Bingham Lake, at $5145, and HADLEY & FLAHERTY, Ft. Dodge, Iowa, at $13,841. S. A. Brown is County Audr.

✚**Barge**—Kansas City, Kan.—The contract for constructing a barge for the Kaw Valley Drainage Board has been awarded to the MORRISON MACHINE WORKS, Baldwinsville, N. Y., at about $65,000. A subcontract has been let to GEORGE GEDNEY, Kansas City.

✚**Levees**—Dumas, Ark.—The contract for about 350,000 cu.yd. of levee work in the Linwood and Auburn Levee District has been awarded to LANA BROS., Dumas, at 14.5c. per cu.yd. The cost is about $60,000. Gus. Waterman is Chn. of the Board.

✚**Levee**—McGhee, Ark.—The contract for about 345,000 cu.yd. of levee work, has been awarded by the Commissioners of Red Ford. Levee District to DENNISON & RODGERS BROS., Memphis, Tenn., at 13.75c. per cu.yd. Noted June 17.

✚**Levees**—Pine Bluff, Ark.—The contract for the construction of four miles of levees at Farrelly Lake has been awarded to HALLECK & YHOM, Little Rock, Ark., at $35,000.

Levee—Ft. Worth, Tex.—F. J. Von Zuben, City Engr., is preparing plans for the construction of the proposed levee around the city pumping plant. It is estimated to cost $16,000.

Wharves, Docks, Etc.—Orange, Tex.—At a recent election the citizens voted in favor of issuing $150,000 in bonds for the construction of municipal wharves, docks, schools, and for the improvements of streets. Noted June 17.

Drainage—Corinne, Utah—Bids will be received until Aug. 21, by the Board of Supervisors, for about eight miles of open ditches. W. M. Bostaph, 204 Kearns Bldg., Salt Lake City is Engr. C. G. Adney is Secy. of Drainage District.

Ditch—North Yakima, Wash.—According to press reports, the Yakima County Commissioners will soon hold an election to vote on issuing $50,000 in bonds for the purpose of constructing two branches to the present West Side drain. O. E. Brashears is County Engr.

Coal Bunkers—Seattle, Wash.—Plans for construction of coal bunkers on Puget Sound are being prepared by J. R. West, Ch. Engr., Seattle Port Commission. The bunkers will be at the Smith's Cove improvement and will be of steel and frame construction, costing about $25,000.

✚**Pier**—Portland, Ore.—The contract for constructing a pier at the Hill terminals has been awarded to G. A. McEACHERN CO., Seattle. The pier will be 30x420 ft. and is estimated to cost $15,000.

Pier—Redondo Beach, Calif.—Leyden & Ortseifen, Flagstaff, Ariz., submitted the lowest bid at $108,800 for the construction of a reinforced-concrete pier at Redondo Beach from plans prepared by George W. Harding, Engr., 1118 Washington Bldg., Los Angeles. Noted July 15.

Retaining Wall—Montreal, Que.—The City Council has voted $360,000 for the construction of a retaining wall on the north side of the enlarged viaduct.

Grandstand—Quebec, Que.—Bids will soon be called for the construction of a grandstand on the exhibition grounds to cost about $25,000. Taraguay & Lebon, 20 D'Aguillon St., Quebec, is Arch.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Portland, Maine—Plans are being prepared by Miller & Mayo, Arch., Fidelity Trust Bldg., for the construction of a three-story, 190x250-ft. brick and stone high school to cost $300,000. Mayor William M. Ingraham is Chn. of Com.

Boston, Mass.—The Kenmore Realty Trust will soon award the contract for the construction of a nine-story apartment block on Commonwealth Ave. to cost $300,000. Blackhall, Clapp & Whetmore is Arch.

✚**Boston, Mass.**—The contract for the construction of a six-story brick building on High St. for James Donahue, 35 Congress St., has been awarded to WILLIAM BAILEY, 88 Broad St. Monks & Johnson, 78 Devonshire St., is Arch.

Brookline, Mass.—A special town meeting, July 29, appropriated $110,000 for alterations and additions to the high school.

Dedham, Mass.—Bids were received by Samuel H. Capen, Chn. of Bldg. Com., for the construction of a high school as follows: C. S. Cunningham Sons Co., Boston, $102,300; L. B. Taylor, Athol, $103,775; George B. Long, Worcester, $104,650; George Howard Son Co., Brockton, $106,000; F. C. Alexander, Boston, $106,843; William Hansom, Brockton, $107,300; John W. Duff & Co., Boston, $107,719; McGee & O'Connor, Cambridgeport, $108,986; Walsh Bros., East Cambridge, $109,283; J. L. Slotnick, Chelsea, $109,292; J. J. Powers, Cambridge, $110,889; C. S. Cunningham Construction Co., Boston, $112,176; Daniel L. Sheppard, Boston, $115,547; John A. Logatelli Co., Boston, $15,587, and H. L. Hemenway Co., Boston, $119,292. Killiane & Hopkins, 9 Park St., Boston, Mass., is Arch. Noted July 29.

Nahant, Mass.—A special town meeting July 29th appropriated $38,600 for the construction of a school. William Waters is Town Clk.

Southbridge, Mass.—Bids are being received by Peabody & Stearns, Arch., 53 State St., Boston, Mass., for the construction of a high school. Noted Oct. 29, Apr. 1 and June 10.

✚Warren, R. I.—The contract for the construction of a school has been awarded to the EASTERN CONSTRUCTION CO., Woonsocket, R. I., at $44,873.

Hartford, Conn.—The Rev. Stanislaus Lozowski has plans for the construction of a $70,000 church on Governor St.

Albany, N. Y.—Feeney & Sheehan Building Co., 164 Montgomery St., Albany, at $162,000, submitted the lowest bid for the construction of additions and alterations to the State House on Eagle St Noted May 6 and July 8.

Buffalo, N. Y.—Bids will be received until 11 a.m., Aug. 19, by Francis G. Ward, Comr. of Pub. Wks., Buffalo, for the construction of a public school on Amherst St. and North Lincoln Blvd.

✚Mineola, N. Y.—The Nassau County Trust Co. has awarded the general contract for the construction of a bank building to HOGGSON BROS., 7 East 44th St., New York Estimated cost, $50,000.

New York, N. Y.—(Borough of Bronx)—J. C. Corker, Arch., 2017 Fifth Ave., has prepared plans for the construction of a two-story, 60x148-ft. fireproof theater at Fordham Rd. and Morris Ave. for H. U. Singhi. The estimated cost is $100,000.

New York, N Y.—(Borough of Bronx)—B. H. & C. N. Whinston, Arch., 148th St. and Third Ave., has prepared plans for the construction of a five-story hospital at 959-61 Whitlock Ave. for the Bronx Maternity Hospital, 956 Whitlock Ave. The estimated cost is $50,000.

New York, N. Y.—(Borough of Bronx)—Bids are being received by the Home of the Holy Comforter, Riverside Drive and 139th St., for the construction of a four-story, 103x148-ft., fireproof brick and stone building as a Home for Incurables on the Grand Boulevard and Concourse and 196th St. John B. Snook Sons, 261 Broadway, is Arch. Noted July 29.

✚New York, N. Y.—(Borough of Brooklyn)—The contract for the construction of a five-story brick store and loft building at 471 Fulton St. for Oppenheim, Collins & Co., 35 West 34th St., New York, has been awarded to CHARLES A. COWEN & CO., 1123 Broadway, New York.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Warren & Wetmore, Arch., 16 East 47th St., for the construction of a 17-story apartment house on Park Ave., from 55th to 56th St., for the 420 Park Avenue Co. The estimated cost is $800,000. S. Fullerton Weaver is Pres. of the company. Noted July 1.

New York, N. Y.—(Borough of Manhattan)—Walter Cook, Arch., 3 West 29th St., has prepared plans for the construction of a church at Amsterdam Ave. and 92d St. for the Central Baptist Church. The estimated cost is $200,000. Frank Goodchild is Pastor and I. W. Cokefair, 10 Maiden Lane, is Chn. of Bldg. Com. Noted June 17.

✚New York, N. Y.—(Borough of Manhattan)—The general contract for the construction of a nine-story, 90x150-ft. fireproof hotel at 3 West 67th St. for the Hotel Des Artistes, Inc., 33 West 67th St., has been awarded to the WILLIAM J. TAYLOR CO., 5 East 42d St., New York. The estimated cost will be $800,000. George Mort Pollard, 127 Madison Ave., is Arch. Noted Feb. 18.

Syracuse, N. Y.—Charles D. Wilsey, Arch., 611 S. A. & K. Bldg., is preparing plans for the construction of a three-story business block and apartment building on East Fayette St. for Joseph A. Griffin, care of L. Vinney Co., 130 South Salina St. The estimated cost is $50,000.

Syracuse, N. Y.—Bids will be received until Aug. 16, by D. R. Roney, Secy., Bd. of Contract and Supply for the construction of the Delaware School on Delaware and Geddes St. The estimated cost is $225,000. Noted May 27 and July 15.

Newark, N. J.—The Board of Freeholders is planning to hold an election to vote on the question of issuing $135,000 in bonds. The proceeds will be used for the construction of additions and improvements at the county penitentiary and jail.

✚South Orange, N. J.—The contract for the construction of a railroad station for the Delaware, Lackawanna & Western R.R. has been awarded to F. H. HYDE, 90 West St., New York, N. Y. Estimated cost, $40,000.

Dormont, Penn.—Contracts will be awarded about Aug. 15, by J. A. Long, Arch., Pittsburgh, for the construction of a three-story, 56x102-ft. store and lodge building for the South Hills Hall Association. Estimated cost, $50,000. Noted July 22.

✚Lock Haven, Penn.—THOMAS M. LEEDS, JR., 1207 Race St., Philadelphia, has been awarded the contract for the construction of a three-story nurses' home at the Lock Haven Hospital. Harris & Rush, 130 South 15th St., Philadelphia, is Arch. Estimated cost, $40,000.

✚Muncy, Penn.—The contract for the construction of an administration building and four cottages at the State Industrial Home for Women has been awarded to METZGER & FISHER, Denckla Bldg., Philadelphia, at $178,500. Horace Trumbauer, Land Title Bldg., Philadelphia, is Arch., and Frank Smith, Harrisburg, is Secy., State Bd. of Charities. Noaed June 24 and July 22.

✚Philadelphia, Penn.—The contract for the construction of an eight-story, 36x144-ft. reinforced-concrete loft building at 831-35 Cherry St. for Benjamin Linker has been awarded to WILLIAM LINKER CO., 1215 Filbert St., Philadelphia. Estimated cost, $100,000. Noted May 27.

Philadelphia, Penn.—Ballinger & Perrott, Arch., 6th floor, Methodist Bldg., is preparing plans for the construction of a church at 58th and Springfield Ave. for the Springfield Avenue Methodist Episcopal Church. The estimated cost is $60,000.

Philadelphia, Penn.—Bids will be received until Aug. 16 for the construction of a building at 1234 North 54th St. for the West Philadelphia General Homeopathic Hospital. Magaziner & Potter, 137 South Fifth St., is Arch.

✚Philadelphia, Penn.—HENRY E. BATON, 10th and Sansom St., Philadelphia, has been awarded the contract for the construction of a one-story, 54x200-ft. brick ward building at Holmesburg for Philadelphia County. The estimated cost is $90,000. Philip Johnson is Arch.

✚Philadelphia, Penn.—The contract for the construction of a two-story school on Hutchinson St. near Cambria St. for the St. Bonaventura's Church has been awarded to MELODY & KEATING, Bailey Bldg., Philadelphia. Estimated cost, $40,000.

Pittsburgh, Penn.—The Baltimore & Ohio R.R. Co. plans to complete the remodeling of its passenger station at Smithfield and Water St. F. L. Stuart, Baltimore, Md., is Ch. Engr.

✚Scranton, Penn.—The contract for the construction of a two-story, 60x100-ft. bank building for the First National Bank has been awarded to S. SYKES SONS, 218 Larch St., Scranton. The cost is estimated at $190,000. Belin & Snyder, Title Guarantee Bldg., is Arch.

✚Sharon, Penn.—(Official)—WALLIS & CARLEY CO., Sharon, has been awarded the general contract for the construction of the Kimberly Nurses' Home, adjoining the C. H. Buhl Hospital. The estimated cost is $60,000. C. F. Owsley, Youngstown, Ohio, is Arch. Noted July 29.

South Bethlehem, Penn.—The Bethlehem Steel Co., South Bethlehem, is planning the construction of an office building. Estimated cost, $500,000.

✚Wilmington, Del.—(Official)—The contract for the construction of a four-story 85x183-ft. brick and stone addition to the Wilmington High School has been awarded to A. S. REED & BRO. CO., Wilmington, Del., at $123,733. Wallace E. Hance is Arch. Noted July 8 and 29.

Baltimore, Md.—Irwin & Leighton Co., 126 North 12th St., Philadelphia, Penn., submitted the lowest bid for the construction of an addition to the Drovers and Mechanics National Bank at Fayette and Eutaw St. Joseph Evans Sperry, 409 Calvert Bldg., is Arch.

Baltimore, Md.—Plans have been prepared by Cram, Goodhue & Ferguson, Arch., 15 Beacon St., Boston, Mass., for the construction of a church at Eutaw and Madison St. for the Mt. Calvary Protestant Episcopal Church. The estimated cost is $200,000.

Baltimore, Md.—Parker, Thomas & Rice, Arch., has prepared plans for the construction of an office building at Lexington and Liberty St. for the Consolidated Gas, Electric Light & Power Co. The estimated cost is $1,000,000. Noted Apr. 29.

Baltimore, Md.—Bids will be received until Aug. 16 by the Board of Awards for the improvement and repairing of various public schools in Baltimore. The entire cost is estimated at $100,000.

✚Weston, W. Va.—The State Board of Control, Charleston, has awarded the contract for the construction of a building at the Weston State Hospital for the Insane to the DAWSON CONSTRUCTION CO., May Bldg., Pittsburgh, Penn., at $66,870. Other bids were: Acme Construction Co., Charleston, $79,495; J. F. Barbour & Sons, Roanoke, Va., $74,000; James Cain, Elkins, $80,332; J. L. Crouse, Greensboro, N. C., $81,475; Dayton & Francis, New Martinsville, $104,800; Foreman & Putnam, Marietta, $89,300. Harris & Spindler, Wheeling, $80,925; King Lumber Co., Charlottesville, Va., $81,772; Longest & Tessier, Greensboro, N. C., $90,819; Rose & Beaman, Goldsboro, N. C., $71,500; Richman Construction Co., Moorestown, N. J., $83,445; Showers & Taylor, Crooksville, Ohio, $91,448; C. Harrison Smith, Huntington, $89,675; Tyree & Thomas, Charleston, $84,287. Noted July 15.

✚Wheeling, W. Va.—The KITCHEN CO. has been awarded the general contract for the construction of the Scottish Rite Cathedral. The cost is estimated at $110,000. Noted May 27.

Wilmington, N. C.—Plans are being prepared by Kenneth McMurchison, Arch., 101 Park Ave., New York, N. Y., for the construction of a ten-story hotel for J. H. Hinton, Wilmington. Noted July 22.

Atlanta, Ga.—An election will be held Sept. 30 to vote on the question of issuing $3,358,000 in bonds. A part of the proceeds will be used for the construction of schools and a hospital. I. M. Ragsdale is Mayor.

Meridian, Miss.—At a recent election the citizens voted in favor of issuing $65,000 in bonds. The proceeds will be used for the construction of a city hall and jail. Noted Aug. 5.

✚New Orleans, La.—The contract for remodeling the Citizens Bank & Trust Co. building on Gravier St. has been awarded to LIONEL FAVRET, New Trleans. Estimated cost, $50,000.

✚New Orleans, La.—The contract for the construction of a brick church at the Loyola University has been awarded to the JEFFERSON CONSTRUCTION CO., at $138,000. Hugh McCloskey and W. P. Burke are Trustees.

Chattanooga, Tenn.—Plans have been prepared by Barnwell & Barnwell, Arch., 516 Hamilton Bank Bldg., for the construction of a ten-story, 100x137-ft. office building at Ninth and Dewey St. and Georgia Ave. for the Volunteer State Life Insurance Co.

Memphis, Tenn.—I. D. Block, of the Dry-Block Mercantile Co., has purchased a site at Calhoun Ave. and Mulberry St. upon which to construct a five-story brick hotel. The estimated cost is $50,000.

Nashville, Tenn.—Asmus & Norton, Arch., 505-8 Cole Bldg., is preparing plans for the construction of a five-story, 50x150-ft. addition to the St. Thomas' Hospital. The estimated cost is $200,000.

Nashville, Tenn.—Plans are being prepared by Ludlow & Peabody, Arch., 101 Park Ave., New York, N. Y., for the remodeling of the bank building for the First and Fourth National Bank of Nashville. The estimated cost is $75,000.

Louisville, Ky.—Bids will be received about Aug. 20 by S. X. Murphy & Bro., Arch., Louisville, for the construction of a ten-story reinforced-concrete addition to the Tyler Hotel. The estimated cost is $200,000. Noted June 24.

Camden, Ohio—Bids will be received until noon, Aug. 20, by G. W. Homsher, Clk., Bd. of Education, for the construction of an eight-room high school with an auditorium and a gymnasium. E. Rufus Thompson, Arch., 524 Belmont Ave., Youngstown, has prepared the plans. Noted June 10.

Cleveland, Ohio—Plans are being prepared by Hubbell & Benes, Arch., 4500 Euclid Ave., for the construction of a two-story commercial building at Euclid Ave. and East 102d St. for the Cutler Realty Co. Estimated cost, $60,000.

✚Cleveland, Ohio—The contract for the construction of a three-story commercial building at Detroit and West 65th St. for Charles A. Conners has been awarded to the A. B. LOOMIS CONSTRUCTION CO. W. S. Ferguson Co., 1900 Euclid Ave., is Arch. Estimated cost, $50,000.

✚Cleveland, Ohio—The contract for the construction of a five-story commercial building at 1903 East 19th St., near Euclid Ave., for Mrs. Amanda Corlett, has been awarded to the WALTHERS ENGINEERING CO., East 66th St., Cleveland. W. S. Ferguson Co., 1900 Euclid Ave., is Arch. Estimated cost, $125,000.

Cleveland, Ohio—The Immanuel Baptist Church is planning to construct a church on Parkwood Drive. Estimated cost, $50,000.

✚Cleveland, Ohio—The contract for the construction of a church on East 93rd St. for the St. Catharine congregation has been awarded to EMIL CONVERSE, Massillon. Estimated cost, $60,000. E. J. Schneider, 606 Cuyahoga Bldg., is Arch.

Cleveland, Ohio—Plans have been prepared by Hubbell & Benes, Arch., 4500 Euclid Ave., for alterations and improvements to the Pearl Street Savings & Trust Co. Building, West 25th St. and Clark Ave. Estimated cost, $40,000.

Cleveland, Ohio—Plans have been prepared by Emil M. Ulrich, Arch., 1900 Euclid Ave., for the construction of a school on Aetna Rd. for the Congregation of Christ. Estimated cost, $40,000.

Cleveland, Ohio—Preliminary plans have been prepared by Harry A. Cone, Arch., 1228 Schofield Bldg., for the construction of a five-story reinforced-concrete commercial building on Euclid Ave., near East 17th St. for M. G. Glauber. Estimated cost, $125,000.

Cleveland, Ohio—The St. George's Lithuanian Church, 1389 East 21st St., will construct a church and school building at East 67th St. and Superior Ave., N. E. The estimated cost is $150,000. Joseph Halaburda is Pastor.

Columbus, Ohio—A commission will soon be appointed by Governor Willis to plan for the construction of a state office building on the Capitol Square. The estimated cost is $1,000,000. A. V. Donahey is State Audr. and D. M. Hough is Adjutant General. Noted Mar. 25.

Columbus, Ohio—Plans are being prepared by Richards, McCarty & Bulford, Arch., for the construction of a clubhouse for the Scioto Country Club. Estimated cost, $50,000.

Columbus, Ohio—Plans are being prepared by J. N. Bradford, Arch., for the construction of a school building for the Ohio State University. The estimated cost is $150,000. Noted May 6.

Columbus, Ohio—Bids will be received until noon, Aug. 16, by Ben. W. Hough, Adjutant Gen., for the construction of additions and alterations to the fourth floor of the Ohio State Capitol Annex. Karl I. Best, State House, Columbus, is Arch.

Gratis, Ohio—Bids will be received until noon, Aug. 16, by J. T. Street, Clk., Bd. of Education of the Gratis School Dist., for the construction of a two-story fireproof school. Albert Pretzinger and Edward P. Musselman, Archs., 1155 Feibold Annex, Dayton, have prepared the plans.

Lakewood, Ohio—Preliminary plans are being prepared by Charles W. Hopkinson, Arch., 900 Rose Bldg., Cleveland, for the construction of a high school at Lakewood. Estimated cost, $175,000. Noted Apr. 15.

✚Lisbon, Ohio—The School Board has awarded the contract for the construction of a high school to the CULLEN & VAUGHN CO., Hamilton. The estimated cost is $60,000.

Monroe, Ohio—Plans are being prepared by Rush & Sheets, Arch., Columbus, for the construction of a grade and high school. The estimated cost is $45,000.

✚Niles, Ohio—The contract for the construction of a building for the National McKinley Birthplace Memorial Association has been awarded to JOHN H. PARKER CO., 315 Fourth Ave., New York, N. Y., at $240,000. Noted Apr. 15 and May 13.

✚Springfield, Ohio—The contract for the construction of a five-story hotel on East High St. for Frank G. Warden has been awarded to the CONCRETE STEEL CONSTRUCTION CO. The estimated cost is $200,000.

Toledo, Ohio—Bids will be received until noon, Aug. 23, by the Clerk of the Board of Education, for the construction of the Mott School at Colorado and Worthington St. Edwin M. Gee is Arch. and George L. McKesson is Dir. of Schools.

Toledo, Ohio—Bids will be received until 10 a.m., Aug. 27, by Charles J. Sanzenbacher, Clk. of Lucas County Commission, for the construction of an addition to dormitory No. 2 at the Hospital for Tuberculosis. David L. Stine, 405 Valentine Bldg., is Arch.

✚Youngstown, Ohio—The contract for the construction of an office building and laboratory for the Youngstown Sheet & Tube Co. has been awarded to the STONE & WEBSTER ENGINEERING CO., 1161 Massachusetts Ave., Boston, Mass. The estimated cost is $300,000. Noted Aug. 5.

Gary, Ind.—E. O. Selby, 220 South Sixth St., Coshocton, Ohio, will construct a one-story, 125x125-ft. motion picture theater and store building. The estimated cost is $50,000. Work will begin in the spring.

✚Detroit, Mich.—The contract for the construction of a 12-story hotel building at Cass and Peterboro St. for the Buckingham Hotel Co. has been awarded to the THEODORE STARRETT CO., 712 Free Press Bldg., Detroit. E. R. Dunlap is Arch. Noted July 15.

Grand Rapids, Mich.—Lee De Camp and Frank L. Wade, Archs., 26 Empress Bldg., are preparing plans for the construction of a three-story, 132x132-ft. theater. The estimated cost is $225,000.

Muskegon, Mich.—The Directors of the Occidental Hotel Co. plan to construct a four-story addition to the hotel on Third St. Estimated cost, $50,000. John G. Emery, Jr., is Pres. and John Q. Ross is Secy.

✚Kenosha, Wis.—The general contract for the construction of a school has been awarded to GOTTLIEB SCHAEFFER, Kenosha, at $77,000. Noted June 10.

Stevens Point, Wis.—The Board of Regents of the Normal Schools has received bids for the construction of a dormitory at the Stevens Point Normal School, as follows: Hans P. Knudsen, Waupaca, 47$,525; Immel Construction Co., Fond du Lac, $49,483; General Construction Co., Milwaukee, $[illegible],761; J. F. Weyenberg Construction Co., Grand Rapids, $58,4[illegible]; J. H. Cullen Co., Janesville, $65,619; Appleton Construction Co., Appleton, $44,999; C. R. Meyer & Sons Co., Oshkosh, $[illegible],689. Noted July 8.

Des Moines, Iowa—Plans have been prepared by Watrous & Sawyer, Arch., 303 Watrous Bldg., for the construction of a union station for the Chicago, Rock Island & Pacific Ry. The estimated cost is $1,000,000. Noted under East Des Moines, Iowa (Des Moines post office), Jan. 28.

Granite Falls, Minn.—Bids will be received until Aug. 18 by Downer Mullen, Secy., Bd. of Control, St. Paul, for the construction of a two-story tuberculosis sanatorium. Estimated cost, $40,000. Sund & Dunham, 512 Essex Bldg., Minneapolis, is Arch. Noted Feb. 18.

Minneapolis, Minn.—A. R. Van Dyck, Arch., 740 McKnight Bldg., has prepared plans for the construction of a two-story, 42x127-ft. building for the Maternity Hospital, 2201 Western Ave. The estimated cost is $50,000. Mrs. T. C. Nickels is Pres. Noted July 29.

✚Minneapolis, Minn.—The contract for the construction of a 12-story, 88x159-ft. hotel and store building at Hennepin Ave. and Second St. for the Union City Mission has been awarded to MADSEN BROS., 753 Plymouth Bldg., Minneapolis. Estimated cost, $200,000. C. E. Bell, 310 Security Bank Bldg., is Arch. Noted June 10.

St. Peter, Minn.—Plans are being prepared by C. H. Johnston, Arch., 715 Capital Bank Bldg., St. Paul, for the construction of an addition to the Criminal Insane Bldg. The estimated cost is $55,000. Downer Mullen, St. Paul, is Secy., Bd. of Control.

Chanute, Kan.—Plans are being prepared for the construction of a lodge building for the Royal Arch Masons, Chapter No. 21. The estimated cost is $50,000.

Wichita, Kan.—Work will soon begin on the construction of a two-story, 115x120-ft. theater. The estimated cost is $80,000. L. M. Miller is Mgr. and Carl Boller & Bro., 7 Gayety Theater Bldg., Kansas City, Mo., is Arch. Noted June 17.

✚Kearney, Neb.—(Official)—W. F. CROSSLEY, Kearney, at $57,867, including heating, plumbing and wiring, was awarded the contract for the construction of an auditorium for the State Normal School. Other bids, not including the heating, plumbing and wiring, were as follows: J. P. Riddle, $53,700; Walter Kuntzen, $53,333; F. P. Gould & Son, $51,750; Hester Construction Co., $57,000. Noted July 29.

✚Sioux Falls, S. D.—The contract for the construction of a four-story, 135x166-ft. brick and reinforced-concrete building on First Ave. between 10th and 11th St. for Haley & Lang Building Co., has been awarded to COWLES & VANDANAKER, St. Paul, Minn. Estimated cost, $100,000. Joseph Schwarz is Arch.

Sioux Falls, S. D.—The State Board of Regents has approved and accepted the plans prepared for the construction of a dormitory at the Brookings College. Estimated cost, $75,000.

Jefferson City, Mo.—An election will be held on Oct. 19 by the Court of Cole County to vote on the question of issuing $100,000 in bonds. Part of the proceeds will be used for the construction of a jail and a tuberculosis hospital.

Marshall, Mo.—Bids will be received about Aug. 15, by J. H. Felt & Co., Arch., 800 Grand Ave., Kansas City, for the construction of a two-story, 60x140-ft. cottage at the Missouri Colony for Feeble Minded. The estimated cost is $65,000.

St. Joseph, Mo.—Bids will soon be received for the construction of a three-story office building to be used by physicians and surgeons, at Seventh and Francis St. The estimated cost is $50,000. Walter Boschen, Tottle Bldg., is Arch.

St. Louis, Mo.—Plans are being prepared by Thomas P. Barnett Co., Arch., 724 Central National Bank Bldg., for the construction of a 16-story, 83x100-ft. hotel for W. K. Bixby, Lindell and Kingshighway Blvd.

St. Louis, Mo.—The Burdeau Real Estate Co. is having plans prepared for the construction of a commercial building at 16th and Chestnut St. The estimated cost is $100,000.

Beaumont, Tex.—Bids will be received until Aug. 14, by the School Board of the South Park Independent School District, for the construction of an addition to the South Park School. The estimated cost is $50,000. Sanguinet, Staats & Gottlieb, 624 First National Bank Bldg., Houston, is Arch. Noted July 1.

Corsicana, Tex.—Bids will be received about Aug. 15 for the construction of a hospital dormitory for the Texas State Orphans Home Association. The estimated cost is $89,000. C. H. Page & Bro., 348 Austin National Bank Bldg., Austin, is Arch. Noted July 22.

✚Dallas, Tex.—The contract for the construction of a five-story, 75x90-ft. brick addition to the St. Paul Sanitarium for the Daughters of Charity of St. Vincent de Paul has been awarded to H. J. CURTIS, Dallas. Estimated cost, $200,000. J. E. Overbeck, 708 Wilson Bldg., is Arch. Noted Apr. 8.

Johnson City, Tex.—Plans are being prepared by Henry T. Phelps, Arch., San Antonio, for the construction of a court house. The estimated cost is $50,000.

Orange, Tex.—At a recent election the citizens voted in favor of issuing $150,000 in bonds. The proceeds will be used for the construction of schools. Noted June 10 and 24.

San Antonio, Tex.—Bids will be received until Aug. 20, by J. S. Davis, County Judge, for the construction of the two-story, 125x125-ft. reinforced-concrete Robert B. Green Memorial Hospital. The estimated cost is $235,000. Noted July 22.

Norman, Okla.—Bids will be received until Aug. 20 for the construction of a four-story reinforced-concrete Science Hall at the University of Oklahoma. The estimated cost is $90,000. Hawk & Parr, 501 Security Bldg., Oklahoma, is Arch. Noted Aug. 5.

Bellingham, Wash.—Bids will be received about Sept. 1 for the construction of an addition to the North Side High School. The estimated cost is $90,000. T. F. Doan, 217 Sunset Bldg., is Arch. and Heath & Gove, National Realty Bldg., Tacoma, is Assoc. Arch. Noted July 22.

Portland, Ore.—Bids will soon be received for the construction of an auditorium on the Market Blk. Whitehouse & Fouilhoux, Arch., 809-13 Wilcox Bldg., has prepared plans. The estimated cost is $600,000. Noted July 29.

Salem, Ore.—Bids were received by the Board of Trustees for the construction of a building at the State Normal School, as follows: Bingham & Shelly, Portland, $39,497; Southwick & Hendrick, Salem, $39,741; Snook & Traver, Salem, $40,988; E. B. White, Portland, $41,286; James P. Taylor, Portland, $41,987; N. E. Hoover, Albany, $43,279; John Almeter, Portland, $42,804; W. C. Arthur & Co., Portland, $45,372; Wechter & Wood, Salem, $46,249; C. Van Patten, Salem, $51,308; J. F. Mollecop, Salem, $44,843; L. D. Horn, Portland, $45,950; H. E. Doering, Portland, $46,263; Palmer & Ellison, Portland, $46,536; A. F. Peterson, Portland, $44,567; A. W. Kutsche, Portland, $46,800; F. A. Erickson, Salem, $42,248; J. H. Tillman, Portland, $44,600; C. C. Johnson & Son, Portland, $45,776.

+Fresno, Calif.—The contract for the construction of a two-story business block for Olender Bros. has been awarded to RIGGINS & PALMER. The estimated cost is $60,000.

Fresno, Calif.—R. F. Hotchkin, Arch., has been commissioned to prepare plans for the construction of an edifice for the Christian Science congregation. The estimated cost is $75,000. Henry Gundelfinger is Chn. of Bldg. Com.

Los Angeles, Calif.—The F. O. Engstrum Co., Fifth and Seaton St., at $92,127, submitted the lowest bid for the construction of the brick and reinforced-concrete auditorium, library and music buildings at the Lincoln High School. Needham & Cline, 615 Brockman Bldg., is Arch. Noted Mar. 11.

Los Angeles, Calif.—The Concordia Country Club has been incorporated at $200,000 and will construct a clubhouse west of Los Angeles. Edelman & Barnett, Arch., 729 Black Bldg., has prepared the plans.

Iriquois Falls, Ont.—The Abitibi Pulp & Paper Co. will construct 75 cottages, estimated to cost $60,000.

London, Ont.—Preliminary plans are being prepared by Lee De Camp and Frank L. Wade, Archs., 26 Empress Bldg., Grand Rapids, Mich., for the construction of a four-story, 110x267-ft. hotel, theater and store building. The estimated cost is $300,000. S. H. Bangs, 110 Dundas St., London, is interested.

Toronto, Ont.—The Civic Property Committee has been commissioned to approve the construction of a two-story brick dormitory at the Women's Industrial Farm. Estimated cost, $40,000.

+St. Boniface, Man.—The contract for the construction of a school on Youville St. has been awarded to the PROGRESS CONSTRUCTION CO., LTD. The estimated cost is $100,000.

SEWER EXTENSION—BOSTON, MASS.
Section 105

+Bids were received July 28 by the Metropolitan Water and Sewerage Board for the construction of sewers in Section No. 105 of the high level sewer, South Metropolitan System, in Needham and Wellesley from (A) Bruno & Petitti, (B) M. Russo & Son, (C) Henry Spinach Contracting Co., (D) Michael Meehan, (E) Coleman Bros., (F) George M. Bryne, (G) HUGH NAWN CONTRACTING CO., Roxbury (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G
4425 lin.ft. earth excavation and refilling in trench and embankment 24 in. x 27 in. concrete sewer	$9.00	$7.84	$7.75	$7.50	$6.00	$4.50	$3.00
60 cu.yd. portland brick masonry in manholes	16.00	17.00	20.00	20.00	18.00	16.00	18.00
2000 cu.yd. portland concrete masonry in trench	8.50	9.00	8.00	8.50	8.00	8.00	7.50
100 cu.yd. rock excavation in trench	6.00	4.50	10.00	8.00	6.00	4.00	3.65
Extended totals	$58,385	$54,162	$52,493	$52,187	$44,230	$37,272	$29,655

The Commercial Construction Co. has changed its name to the Bickel Co., Engineers-Contractors, and has moved from its former quarters in the Reliance Bldg., Kansas City, Mo., to the Interstate Bldg. The capital stock has been doubled but the officers and policy of the company are the same.

The Metals Coating Co. of America, 122 South Michigan Ave., Chicago, Ill., has opened offices at 30 Church St., New York, in charge of Mr. Edward McFarlan, and at 100 Summer St., Boston, Mass., in charge of Mr. Herbert Jaques, Jr. This company is prepared to furnish information and to demonstrate to interested manufacturers the Schoop Metal Coating Process.

The Gardner Governor Co., Quincy, Ill., manufacturer of pumping machinery, has recently been awarded contracts calling for three carloads of pumps ranging in size from the very smallest to the largest water works type; also received contracts from Indo-Burma calling for two small water works pumps.

SEWER—NEWARK, N. J.

Bids were received July 29 by the city for the construction of the Bound Creek and Frelinghuysen Ave. sewer from (A) John W. Heller, Newark, (B) Peter D'Amato, Newark, (C) O'Gara & Maguire, Newark, (D) Charles Ippolito, Montclair, (E) Averill Mathews, Montclair, (F) Harrison & Craig, Newark, (G) P. L. Braunworth, (H) Frisco Construction Co., Newark. The item bids were as follows:

	A	B	C	D	E	F	G	H
2050 ft. 4x6 ft. concrete sewer	$9.50	$11.75	$8.88	$26.99	$9.95	$13.00	$12.00	$9.00
1300 ft., 18-in. pipe sewer	1.40	3.65	1.68	2.54	1.70	2.00	1.52	1.75
2700 ft., 15-in. pipe sewer	1.25	3.98	1.29	2.22	1.45	1.50	1.25	1.50
1470 ft., 12-in. pipe sewer	.80	1.79	.79	1.53	.50	1.00	.48	1.00
110 ft. 16-in. c. i. pipe	6.00	5.00	3.30	4.49	5.50	3.00	4.86	3.00
60 ft., 12-in. c.i. pipe	2.50	3.00	2.75	5.00	3.50	2.50	2.70	2.00
7 basins	100.00	100.00	70.00	85.00	85.00	100.00	55.00	100.00
26 manholes over pipe sewer	40.00	55.00	41.00	50.00	35.00	50.00	45.00	50.00
12 manholes over concrete sewer	30.00	25.00	27.50	30.00	25.00	40.00	30.00	50.00
2 pumps	400.00	200.00	380.00	650.00	250.00	600.00	183.00	500.00
75,000 ft. b.m. timber	40.00	45.00	34.75	50.00	32.00	32.00	40.00	60.00
450 piles	12.00	9.00	5.25	3.75	8.00	8.00	3.40	10.00
Extended totals	$37,956	$53,194	$33,175	$76,661	$36,377	$44,930	$38,164	$39,295

FIFTEENTH AVE., N. W., BRIDGE, SEATTLE, WASH.

Bids were received July 23 by A. H. Dimock, City Engr., Seattle, Wash., for the construction of the superstructure of a bridge over Lake Washington Canal at 15th Ave., N. W., from: (A) Standifer-Clarkson Co., (B) Beer's Building Co., (C) Booker, Kiehl & Whipple. Bids for the substructure of the same bridge were received from: (A) Booker, Kiehl & Whipple; (B) Hans Pederson; (C) Beer's Building Co.; (D) Twohy Bros. Co. The item bids were as follows:

Superstructure	A	B	C
23,000 lb. machinery, furnishing and erecting	$0.11½	$0.128	$0.1112
1,900,000 lb. structural steel, furnishing and erecting	.0465	.043	.0416
Furnishing 300,000 lb. structural steel, erected by contractor for substructure	.0325	.032	.0333
390 cu.yd. furnishing, placing and adjusting gravel concrete counterweight	7.50	5.00	5.50
280 cu.yd. furnishing, placing and adjusting cinder concrete counterweight	8.00	7.00	5.50
1 cinder concrete test block, furnishing and weighing	10.00	10.00	11.00
1 gravel concrete test block, furnishing and weighing	10.00	10.00	11.00
890 sq.yd. roadway floor on movable leaves	5.60	2.85	5.25
410 sq.yd. roadway floor, including reinforcement, on fixed portion	4.25	2.45	3.30
265 sq.yd. sidewalk floor on movable leaves	1.25	.50	1.00
130 sq.yd. sidewalk floor on fixed portion	1.35	1.25	1.20
90 sq.yd. concrete floor, including reinforcement, on machinery platforms	2.40	1.00	1.20
10,000 lb. reinforcing bars in concrete counterweight	.0325	.0275	.03
Electric equipment complete in place (lump sum)	13,936	14,946	14,132
4 operators' houses and 2 toilet rooms complete (lump sum)	6000	600	5300
Meneely fog bell in place (lump sum)	120.00	100.00	90.00
2 copper ball vessel signals in place	25.00	15.00	70.00
80 lin.ft. iron pipe hand rails below deck of bridge	1.25	.50	1.65
Wooden steps and railings for access to machinery platforms (lump sum)	35.00	200.00	125.00
4 double-arm roadway gates complete in place	300.00	300.00	302.50
14 oak buffer blocks	5.00	3.00	5.00
Extended totals	$148,945	$146,029	$146,366

Substructure	A	B	C	D
5200 cu.yd. excavation	$3.20	$5.10	$2.66	$8.65
2700 cu.yd. Class A concrete (deposited under water)	8.52	6.60	8.00	7.80
4600 cu.yd., Class C, concrete in piers (above water)	5.65	7.00	8.00	6.90
7300 cu.yd. concrete in unwatered foundations (alternate to two preceding items)	12.00	7.00	8.65	7.15
850 cu.yd., Class B, concrete	6.70	12.00	6.00	7.60
127,000 lb. reinforcing steel	.032	.028	.0275	.0265
Placing and painting structural steel, grillages and anchor bolts, including grouting, 300,000 lb.	.0078	.004	.0465	.006
2 fir bumping logs	22.00	25.00	10.00	25.00
4200 lin.ft. peeled piles in protection work	.20	.20	.15	.40
8 M ft. b.m. timber in protection work	25.30	25.00	14.00	20.00
325 lin.ft. chains on dolphins	.30	.30	.30	.30
560 sq.ft. surface treatment of panels	.22	.03	.06	.18
400 sq.ft. brick pattern work	.66	.20	.20	.20
16 pendants, 1 part cement, 3 parts sand	16.50	10.20	5.00	3.00
4 test piles	44.00	25.00	10.00	20.00
8 eye bolts in shafts of anchor piers	3.30	2.00	15.00	.60
750 cu.yd. extra excavation below elevation —35	5.50	2.00	2.00	4.00
750 cu.yd. extra concrete below elevation—35	11.00	4.00	6.00	7.80
750 cu.yd. alternate to preceding item in case foundations are unwatered	13.00	5.00	6.00	7.80
Extended totals	$92,145	$97,556	$101,987	$120,556
Alternates	$132,401	$99,386	$106,732	$119,951

CATALOG NOTICES

Kerr Turbine Co., Wellsville, N. Y. Bulletin No. 54. Economy turbo-generators. Illustrated, 32 pp., 6x9 in.

Theodore Smith & Sons Co., Jersey City, N. J. Catalog. Clam shell and orange peel buckets, stone grapplers, dredges. Illustrated, 44 pp., 6x9 in.

De Laval Steam Turbine Co., Trenton, N. J. Catalog F. Centrifugal blowers and compressors. Illustrated, 64 pp., 6x9 in.

Contracts to Be Let

Bids received until Sept. 7, 1915.

Sewage Pumping Stations

Albany, N. Y.

Sealed proposals for the construction, and separate sealed proposals for the equipment of two sewage pumping stations will be received by the Board of Contract and Supply of the City of Albany, N. Y., at its office in the City Hall, until 3 o'clock P. M., Tuesday, September 7, 1915, at which place and time the proposals will be publicly opened and read.

The contract for construction of the stations will include, among other items:

Excavation approximately	15,000 cu. yds.
Embankment approximately	16,000 cu. yds.
Concrete approximately	5,000 cu. yds.

Superstructures for a main pumping station, gate house, tool house and auxiliary automatic pumping station.

Railroad track, storage battery locomotive, electrically operated locomotive crane, Venturi meter, etc.

There will be separate contracts also for the necessary plumbing, heating and ventilating, and electrical wiring and fixtures.

The contract for the equipment of the pumping stations will include among other items, the design, construction, delivery and erection of three 10,000,000-gallon daily, three 15,000,000-gallon daily, and two 1,500,000-gallon daily motor-operated centrifugal pumps, switchboards, suction and discharge piping, etc.

Each proposal must be accompanied by a certified check, as a guarantee for the execution of contract and bond, in amount as follows:

For pumping station construction	$10,000
For pumping station equipment	$10,000
For plumbing	$200
For heating and ventilating	$150
For electrical wiring and fixtures	$250

Plans and specifications may be obtained by addressing Frank R. Lanagan, City Engineer, and depositing $25.00 for each complete set or part thereof. Said deposit will be refunded upon return of the plans and specifications in good condition within two weeks after date of opening of bids.

The Board reserves the right to reject any or all bids.

ISADORE WACHSMAN,
Secretary of the Board.

Bids received until Aug. 18, 1915.

Submerged Outfall Pipe at West 58th Street Sewage Treatment Works

Cleveland, Ohio.

Sealed proposals will be received at the office of the Commissioner of Purchases and Supplies, Room No. 511 City Hall, until 12 o'clock noon, August 18th, 1915, for the construction of a concrete open channel outfall sewer approximately 630 feet in length supported on piling and a submerged outfall pipe line approximately 3600 feet long.

Copies of plans and specifications and blank proposals can be obtained at the office of the Commissioner of Engineering, Room Nos. 403 and 417 City Hall, after August 4th, 1915, upon the deposit of Five ($5.00) Dollars, the same to be refunded upon the return of the plans in good condition.

The proposal must contain the full name of the party or parties making the same and all persons interested therein and must be accompanied by a proposal bond signed by a surety company authorized to do business in the State of Ohio or by a certified check for Five Thousand ($5000.00) Dollars payable to the City of Cleveland on a solvent bank, as a surety that if the bid be accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Commissioner of Engineering and delivered at the office of the Commissioner of Purchases and Supplies, Room No. 511 City Hall, previous to 12 o'clock M. on the day specified.

The City reserves the right to reject any or all bids.

A. R. CALLOW,
Commissioner of Purchases and Supplies.

U. S. ENGINEER OFFICE, 508 Federal Bldg., Chicago, Ill.—Sealed proposals will be received here until 10 A.M., August 17, 1915, and then opened, for dredging in Calumet River, Ill. Further information on application.

Bids received until Sept. 8, 1915.

Strauss Bascule Trunnion Bridge

Matawan, N. J.

Sealed proposals for the furnishing of all labor, tools and materials for the construction of a Strauss Bascule Trunnion Bridge, over Matawan creek, on the road from South Amboy to Keyport, in the County of Monmouth, State of New Jersey, in accordance with the plans and specifications prepared therefor and heretofore approved by the Board of Chosen Freeholders of the County of Monmouth, State of New Jersey, will be received by the Board of Chosen Freeholders of the County of Monmouth, at their rooms, Court House, Freehold, New Jersey, on Wednesday, September 8th, 1915, at the hour of eleven o'clock in the forenoon of said day, and then and there publicly opened and read.

All proposals must be submitted in a sealed envelope, be endorsed with the name and address of the bidder and the name of the work bid on.

Plans and specifications can be seen on any day, excepting holidays and Sundays, between the hours of nine a.m. and four p.m., at the office of George D. Cooper, County Engineer, 60 Broad St., Red Bank, N. J., at the office of the Clerk of the Board of Chosen Freeholders of the County of Monmouth, Chas. E. Close, 41 Main Street, Matawan, N. J.; and at the office of the Collector of the County of Monmouth, Court House, Freehold, N J., or can be obtained upon application to the Strauss Bascule Trunnion Bridge Company, 104 South Michigan Avenue, Chicago, Ill.

All proposals must be accompanied by a certified cheque, drawn in the sum of five thousand dollars ($5000.00) to the order of the Collector of the County of Monmouth, or a bid bond for said amount of five thousand dollars, given by a surety company authorized to do business in the State of New Jersey, to said Collector.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids, if deemed to the best interests of the County of Monmouth so to do.

Each bidder must submit with his or their bid a certificate that he or they have visited the location of the proposed work and have made themselves acquainted with the local conditions in connection therewith, and that his or their bid is submitted in strict compliance with the requirements of Chapter 253, Laws of New Jersey, 1913.

No alternate proposal or a proposal on any other plan and specifications other than the plans and specifications heretofore approved by the Board of Chosen Freeholders of the County of Monmouth will be received or considered by the Board of Chosen Freeholders of the County of Monmouth.

Any proposal not complying with the above requirements or the requirements of the specifications as to the submission of bids or proposals will not be considered by the Board of Chosen Freeholders of the County of Monmouth.

No proposal will be received before the hour advertised to receive same, nor will any proposal be received after the hour advertised to receive same.

Dated Freehold, N. J., August 9th, 1915.

J. M. CORLIES, Director.

Attest: C. E. CLOSE, Clerk of Board.

Bids received until Aug. 17, 1915.

Filling and Grading

OFFICE OF THE COMPTROLLER OF THE STATE OF NEW JERSEY

State House, Trenton, N. J.

Sealed proposals for about twenty thousand cubic yards of filling and grading on lands of the State of New Jersey in the rear of the State Capitol, Trenton N. J., will be received at this office at twelve o'clock noon, August 17th, 1915, and then publicly opened.

Plans and specifications on application to the Commissioner of Charities and Corrections, State House, Trenton, N. J.

E. I. EDWARDS, Comptroller,
Secretary, State House Comn.

PROPOSALS FOR AIR COMPRESSORS, ETC.—U. S. Engineer Office, Pittsburgh, Pa.—Sealed proposals for furnishing and installing air compressors, gas engine, turbine, electric light plant, etc., at Lock 6, Monongahela River, will be received at this office until 12 M. (Eastern Standard Time), August 21, 1915, and then opened. Information on application.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS—STEAM AND ELECTRIC

Maine—Fred B. Teeling, Litchfield, Maine, is interested in a project to construct an electric railway from Topsham to Monmouth, Maine, a distance of 33 miles.

New York—Preliminary surveys have been made for the construction of an electric railway along public highways between the towns of Sea Cliff, Glen Cove, Oyster Bay and Roslyn to connect with the New York & North Shore Traction Co. P. Clingman, 33 Pine St., New York, N. Y., is interested.

New York—Hornell Traction Co.—This company will double-track its line on Main St. and part of Broad St. D. A. Proctor, Hornell, is Gen. Mgr., Supt. and Pur. Agent.

New York—Schenectady Ry.—This company has been authorized to extend its line from Nott St. and Wendell Ave., Schenectady, the present terminus, along Nott St. to the Grand Blvd. at East Alley and then along the Grand Blvd. on a private right-of-way in the Town of Niskayuna. James F. Hamilton, Schenectady, is Gen. Mgr

New Jersey—Public Service Ry. Co.—This company is considering the construction of a railway from Woodbridge to Roosevelt. R. E. Danforth, Newark, is Gen. Mgr.

Pennsylvania—Pittsburgh & Lake Erie R.R.—This company plans to double-track its line from New Castle to Sharon. J. A. Atwood, Pittsburgh, Penn., is Ch. Engr.

Pennsylvania—Press reports state that a right-of-way is being secured for a railway to be constructed from Bedford through the Black Valley to Chaneysville, Penn., thence to Little Orleans, Md. New York Central R.R. is interested.

Virginia—Norfolk Water Front Belt Line Corporation—This company has been incorporated to construct a belt-line railroad from the tracks of the Norfolk & Western Ry. at Lambert's Point to the Atlantic City ward of Norfolk. A. P. Jones, D. Lawrence Groner and D. F. Watt, all of Norfolk, are the incorporators.

✚**Virginia**—Petersburg & Appomattox Ry.—This company has awarded the contract for the construction of an electric railway from Petersburg to City Point, about 10 miles, to the VAUGHN CONSTRUCTION CO., Roanoke, Va. The estimated cost is $200,000.

Virginia—Richmond & Rappahannock River Ry. Co.—According to press reports, this company plans to extend its line to Urbanna. Charles L. Ruffin, Richmond, is Vice-Pres. and Gen. Supt.

✚**North Carolina**—Southern Ry.—This company has awarded contracts for double-tracking its line as follows: Concord to Rocky River, N. C., about six miles, to H. H. THRASHER, Knoxville, Tenn.; Hayne, N. C., to Greer, S. C., about 17 miles, to the CORNELL-YOUNG CO., Greenville, S. C.; Greer to Greenville, S. C., about 13 miles, to the MORROW CONSTRUCTION CO., Atlanta, Ga. The estimated cost is $1,428,000.

Georgia—Hawkinsville & Western R.R.—This company has been leased by the Ocilla Southern R.R., which plans to improve same. D. C. Smith, Ocilla, Ga., is Gen. Mgr., Ocilla Southern R.R.

Florida—An election will be held in Miami, Sept. 21, to vote on the question of issuing $40,000 in bonds. The proceeds will be used to construct a railway from the west shore of Biscayne Bay to connect with the Florida East Coast Ry.

Mississippi—Meridian & Deepwater Ry.—This company will, according to press reports, start work about Dec. 1 on the construction of a railway from Meridian, Miss., to Myrtlewood, Ala., about 50 miles. S. A. Neville, Meridian, is Vice-Pres.

✚**Tennessee**—Tennessee Ry.—A contract has been awarded by this company to the HARRIMAN CONSTRUCTION CO., Harriman, Tenn., for the extension of its line from Oneida to Petros, Tenn., about eight miles, with three miles of branches. C. W. Butts, Oneida, is Ch. Engr.

Tennessee—H. H. Thrasher, Knoxville, Tenn., is interested in the construction of a railroad spur from Halls Station on the Southern Ry. to a marble quarry near Nebberts Springs. Estimated cost, $60,000.

Tennessee—Tennessee Electric R.R. Co.—This company has been organized to construct an electric railway about 275 miles long. Lee Baker and William Myers are interested.

Kentucky—Cumberland Traction Co.—This company has been incorporated to construct an electric railway from Hodgenville to Edmonton, Ky.

Ohio—Toledo-Detroit R.R. Co.—This company, formerly the Toledo, Ann Arbor & Jackson R.R. Co., will sell $523,000 in bonds. The proceeds will be used to complete the line from Toledo, Ohio, to Dundee, Mich.

North Dakota—Chicago, Milwaukee & St. Paul Ry.—According to press reports, this company plans to extend its Ortonville-Fargo branch to Grand Forks, N. D. C. F. Loweth, Chicago, Ill., is Ch. Engr.

Montana—Julius Rosholt, Fairmount, N. D., is interested in the construction of a railroad from Three Forks to Radersburg, Mont.

Missouri—Metropolitan St. Ry. Co.—This company will soon receive bids for extending its line about nine miles. J. M. Egan, Kansas City, is Pres. and Gen. Mgr.

Texas—Corpus-Christi-Ward Island Interurban Ry.—This company has been granted a franchise to construct an electric railway from Corpus Christi to Ward Island. The estimated cost is $1,000,000. J. H. Caswell, San Diego, Calif., is interested. Noted July 15.

Texas—El Paso Electric Ry. Co.—This company plans to construct a railway on Piedras St. from Tularosa St. to Alameda Ave., El Paso. L. C. Bradley, Dallas, is Asst. Dist. Mgr.

Texas—Marshall & East Texas Ry.—According to press reports, this company will be taken over by B. F. Yoakum and associates, who will extend the line from Elysian Fields, Tex., to New Orleans, La., about 300 miles, and from Winnsboro to Paris, Tex., about 50 miles.

Texas—Missouri, Oklahoma & Gulf Ry. Co.—This company plans to build additional yards at Denison, Tex. W. Kenefick, Kansas City, Mo., is Pres.

Texas—According to press reports, the Dallas Southwestern Traction Co. and the Dallas Northwestern Traction Co. will soon start work on the construction of a system of interurban lines. This will include a trunk line from Dallas to Austin, with branches to San Angelo, Brownwood, Lockhart, San Antonia and Denton. Noted Mar. 4 and Apr. 22.

Oklahoma—The Central States Construction Co. has been incorporated to construct an electric interurban railway to connect Joplin, Mo., and Miami, Tulsa and Collinsville, Okla. John R. Rose and J. R. Eldridge, Oklahoma, are interested. Noted Aug. 5.

✚**Washington**—Bellingham, Mt. Baker & Spokane R.R.—This company has awarded the contract for the construction of a railroad from Bellingham to Spokane, a distance of 228 miles, to E. J. FADER, New Westminster, B. C.

California—California Southern Ry.—This company has applied to the State Railroad Commission for permission to increase its capital stock from $400,000 to $1,000,000 and to create a bonded indebtedness of $750,000. The company plans to construct a railway from Blythe Junction on the Santa Fé River to the Town of Blythe in the Palo Verde Valley. G. W. Rice, Blythe Junction, is Ch. Engr.

LIGHT, HEAT AND POWER

Manchester, N. H.—The Manchester Traction, Light & Power Co. has taken out a permit for a new power house at Brook and Pennacook St., and also for the enlargement of its substation at Kelley's Falls. J. Brodie Smith is Vice-Pres. and Gen. Mgr. Noted May 6 and June 17.

New London, Conn.—It is reported that plans are being prepared for the construction of a new generating station and boiler plant for the Connecticut Power Co. in New London. It is stated that the present buildings will be removed and replaced by new structures. V. E. Bird, New London, is Mgr.

New London, Conn.—Revised plans are being prepared for the construction of a power station on William St. for the Shore Line Electric Ry. The plans call for a brick building 45x80 ft., and from 25 to 35 ft. high.

New York, N. Y.—(Borough of Queens)—Bids will be received until Aug. 23 by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., Borough of Manhattan, for electrical equipment for new Public School 97, Yarmouth and Shipley St., Woodhaven, Borough of Queens.

Newark, N. J.—It is reported that the James A. Banister Co., manufacturer of shoes, will build a new brick power house at its factory on Orange St.

Keyser, W. Va.—The Keyser Electric Light Co. contemplates the installation of new equipment in its plant and increasing the present output. N. J. Crooks is Mgr., Supt. and Cont. Agt.

New Orleans, La.—Press reports state that the City Council has decided to establish a municipal electric-light plant. The estimated cost is $6,000,000. W. J. Hardee is City Engr.

Lancaster, Ky.—The City Council is considering the installation of a municipal electric-light plant.

Ludlow, Ky.—(Official)—Bids will be received until noon, Aug. 22, by the Board of Education for the installation of a heating and ventilating plant in the present school building and also in the new building to be located about 35 ft. west of the present building. W. F. Matteson is Pres., and H. J. Ordelmundt, 137 Oak St., Ludlow, is Secy., Bd. of Education.

Cleveland Heights, Ohio—(Warrensville post office)—(Official)—Bids will be received until noon, Aug. 26, by Ezra K. Bryan, Clk. Bd. of Education, for heating system, plumbing, marble work, etc., in the new Cleveland Heights High School at Lee Rd. and Euclid Blvd. Walker & Weeks, 1900 Euclid Ave., Cleveland, is Arch.

✚**Painesville, Ohio**—The Board of Control has awarded the contract for new machinery equipment for the municipal electric-light plant to the KERR TURBINE CO., Wellsville, N. Y., at $9850. Noted July 8 and 15.

Shaker Heights, Ohio—(Cleveland post office)—(Official)—Bids will be received until noon, Sept. 7, by Carl A. Palmer, Clk. Bd. of Education, Shaker Heights Village School Dist., for alterations and additions to the heating plant of the school building at Coventry and Southington Rd.

Toledo, Ohio—Bids will be received until noon, Aug. 30, by A. M. Stowe, Pres. Bd. of Trustees, Toledo University, for new heating and ventilating systems in the University Building, 11th and Illinois St. Schreiber & Beelman, 812 Second National Bank Bldg., Toledo, is Arch.

Appleton, Wis.—The Wisconsin Traction, Light, Heat & Power Co. has engaged Woodmansee & Davidson, Consult. Engr., Chicago and Milwaukee, to prepare plans and supervise the construction of a 75x100-ft. addition to its steam-power plant. A. K. Ellis is Gen. Mgr.

✚Madison, Wis.—The Madison Gas & Electric Co. has awarded the contract for the construction of a power transmission station on Blount St. to the T. C. McCARTHY CO., Madison, at $17,000. Energy will be secured from a hydro-electric plant on the Wisconsin River at Kilbourn City, Wis.

✚Stevens Point, Wis.—(Official)—The Board of Regents of the Stevens Point Normal School has awarded contracts in connection with the construction of a new dormitory as follows: Heating equipment, HARRY SOHNS, $5587; plumbing, STEVENS POINT PLUMBING & HEATING CO., $8700; electrical work, NATWICK ELECTRIC CO., Stevens Point, $1574.

Marathon, Iowa—A special election will be held in September, at which the question of issuing $12,000 in bonds for the purpose of installing a municipal electric-light plant will be submitted to the voters.

Sergeant Bluff, Iowa—Bids will be received until 2 p.m., Aug. 23, by the Town Board for the construction of a transmission line from Sioux City to Sergeant Bluff, for a distribution system, street-lighting system, and building for switchboard and storage room. H. J. Ryan, Sioux City, is Engr.

Rochester, Minn.—It is reported that bids will soon be asked for the construction of a municipal electric-light plant. The estimated cost is $110,000. A. F. Wright is City Clk.

Manhattan, Kan.—The Manhattan Ice, Light & Power Co. contemplates the purchase of about $30,000 worth of new equipment for its plant, including a Diesel engine, alternator, exciter and a new switchboard. E. A. Wright, is Mgr.

Sharon Springs, Kan.—Plans are being prepared by W. E. Hulse & Co., Engr., Hutchinson, for remodeling the municipal electric-light plant. The estimated cost is $10,000.

Barnston, Neb.—The State Railway Commission has granted permission to George W. Steinmyer, Holmesvile, Neb., for the construction of a hydro-electric plant on the Blue River near Barnston.

Blair, Neb.—Bids will be received until Aug. 30 by the Village Clerk for the construction of a municipal electric-light plant. The Martz Engineering Co., First National Bank Bldg., Lincoln, is Engr.-in-Charge.

Shelton, Neb.—Bonds for $8000 have been voted, the proceeds of which will be used for the construction of a municipal electric-light and power plant in Shelton.

Denton, Tex.—The Lone Star Gas Co., Ft. Worth, has made application to the Commissioners Court of Denton County for permission to build a natural gas pipe line through the county.

Devine, Tex.—The Devine Light, Power & Ice Co., recently organized with a capital stock of $35,000, will build an electric-light and power plant and an ice factory. J. W. Fullerton is interested.

Terrell, Tex.—The Commercial Club is promoting a plan for building a gas manufacturing plant and installing a distribution system in Terrell. Local citizens will hold a part of the stock of the new company.

✚Yuma, Colo.—The city has awarded a contract for electrical equipment and supplies to the FAIRBANKS-MORSE CO. and the WESTINGHOUSE ELECTRIC CO., both of Denver, at $7140.

Everett, Wash.—A special election will be held Aug. 24 to vote on the question of authorizing the City Council to investigate the feasibility of establishing a municipal power plant. It is proposed to utilize the water of the Sultan River. J. Webster Hoover is City Engr.

Hanford, Calif.—It is reported that the Board of Education will install a new heating system in the grammar school building. The estimated cost is $7000. Henri Deriot is Arch.

St. Hilaire, Que.—Bids will be received until Aug. 23 by J. E. M. Desrochers for the construction of a new electric-lighting system. The estimated cost is $25,000.

Harriston, Ont.—The ratepayers have passed a bylaw providing for the installation of a hydro-electric system. John Patterson is Engr.

Southampton, Ont.—Plans are being prepared by J. C. Eskford for the construction of a new hydro-electric system. Bids will soon be asked. The estimated cost is $25,000.

Regina, Sask.—Bids will be received until Sept. 6 by the City Commissioners for furnishing two turbine pumps each capable of delivering 3,500,000 gal. per day. George Beach is Clk.

BRIDGES

Nashua, N. H.—The Board of Aldermen has voted in favor of a loan order of $15,000, to be used for bridge construction and repairs. James B. Crowley is Mayor.

✚Boston, Mass.—(Official)—Bids for the construction of a concrete bridge over Blacks Creek, Furnace Brook Parkway, Quincy, were opened by the Metropolitan Park Commission Aug. 10, as follows: Henry Spinach Contracting Co., Boston, $33,857; John P. Cavanaugh Co., Dorchester, $27,874; Coleman Bros., Chelsea, $26,000; Bay State Dredging Co., Ltd., Boston, $25,500; Lawler Bros., Charlestown, $25,333; HUGH NAWN CONTRACTING CO., Roxbury, $24,900 (awarded contract); William L. Miller Co., Charlestown, $18,842. Noted Aug. 5.

Norfolk, Mass.—Bids will be received until 8 p.m., Aug. 21, by A. Schuyler Clapp, City Engr., for the construction of a reinforced-concrete slab bridge in Lawrence St.

✚Woonsocket, R. I.—(Official)—The Board of Aldermen has awarded the contract for the construction of two reinforced-concrete bridges on Clinton St. to G. F. AUSTIN, Providence at approximately $6670. Noted June 17 and Aug. 5.

★Bridgeport, Conn.—(Official)—All bids received Aug. 7 for the construction of a reinforced-concrete bridge with a bascule span at Stratford Ave. were rejected. Charles C. Blackham is Secy. of the Stratford Ave. Bridge Commission. George M. Baldwin is Clk. Bd. of Contract and Supply. Noted July 22.

★Bridgeport, Conn.—(Official)—Bids will be received until noon, Sept. 4, by the Stratford Ave. Bridge Commission for the construction of a reinforced-concrete girder bridge with a double-leaf bascule channel span, and all substructure and approaches. Greiner & Whitman, Fidelity Bldg., Baltimore, Md., is Consult. Engr. See preceding item.

Hartford, Conn.—(Official)—The Board of Contract and Supply has awarded the contract for the construction of a concrete bridge with stone facings across the Park River to the SPAULDING CONSTRUCTION CO., Suffield, at $15,000. Other bidders were: C. H. Slocomb & Co., $15,793; W. H. Ryan Construction Co., $16,908; Howard J. Cole, $17,563; J. F. Goodrich, $17,755; Wise & Upson, $18,039. R. N. Clark is City Engr. Noted Aug. 5.

★Westport, Conn.—Bids were received Aug. 10 by the State Highway Commissioner, Hartford, for the construction of a bridge over the Saugatuck River, Westport. The bridge will be about 510 ft. long, including the draw. It will consist of twelve 35-ft. spans. Alternate bids were for (a) concrete masonry; (b) brown stone masonry; (c) rubble masonry. The bidders were: Charles A. Sibley, 902 Chapel St., New Haven, (a) $131,026, (b) $119,546, (c) $110,936; Henry E. Fox, 31 East 125th St., New York, N. Y., (a) $112,203, (b) $115,073, (c) $100,006; Hudson River Co., Inc., New York, N. Y., (a) $133,980, (b) $126,805, (c) $112,455; Barker-Bonner, Inc., 18 East 41st St., New York, N. Y., (a) $154,148, (b) $145,538, (c) $152,713; Barzaghi-Vought Co., Inc., 299 Madison Ave., New York, N. Y., (a) $98,401, (b) $100,912, (c) $90,508; McHarg-Barton Co., 171 Madison Ave., New York, (a) $101,162, (b) $101,162, (c) $96,857; Thomas A. Scott Co., New London, (a) $168,554, (b) $161,129, (c) $155,489; Lathrop & Shea Co., New Haven, (a) $145,341, (b) $145,341, (c) $141,754; North Eastern Construction Co., 255 Fifth Ave., New York, (a) $133,101, (b) $125,567, (c) $124,491; Connecticut Good Roads & Construction Co., New Britain, (a) $156,633, (b) $145,153, (c) $149,458. Johnson-Gifford Co., 30 East 42d St., New York, (a) $137,651, (b) $126,001, (c) $112,656; A. L. Guidone & Sons, Inc., 131 East 23d St., New York, (a) $120,613, (b) $114,873, (c) $105,545; Daniel F. Toomey, South Norwalk, (a) $181,378, (b) $177,073, (c) $174,203. Noted June 10 and Aug. 5.

✚Westport, Conn.—The State Highway Commission has awarded the contract for the construction of the Saugatuck River Bridge to the McHARG-BARTON CO., 171 Madison Ave., New York, N. Y., at $101,162, using granite ashlar masonry. See preceding item.

Albany, N. Y.—Bids will be received until noon, Sept. 8 by W. W. Wotherspoon, State Supt. of Pub. Wks., Capitol Bldg., for the construction of the substructures, superstructures and approaches to the Gorham St. Bridge, Waterloo, and the Kingdom Rd. Bridge between Waterloo and Seneca Falls, under Contract L, Cayuga and Seneca Canal. The estimated cost of the work is $71,469.

★Delanco, N. J.—(Official)—Bids will be received until noon, Sept. 1, by the Board of Chosen Freeholders of Burlington County, Mt. Holly, for repairing the superstructure of the Delanco Draw Bridge over the Rancocas River at Delanco and Riverside. A. I. Davis is Dir. Bd. of Freeholders. James Logan is County Engr.

★Matawan, N. J.—(Official)—Bids will be received until 11 a.m., Sept. 8, by the Board of Chosen Freeholders of Monmouth County, Court House, Freehold, for the construction of a Strauss bascule trunnion bridge over Matawan Creek on the South Amboy-Keyport Rd. George D. Cooper, 60 Broad St., Red Bank, is County Engr. C. E. Close, 41 Main St., Matawan, is Clk. Bd. of Freeholders. Noted July 8 and 15.

New Brunswick, N. J.—Bids will be received until 2:30 p.m., Aug. 23, by the Board of Chosen Freeholders of Middlesex County for the construction of a reinforced-concrete culvert over Mill Brook on the Metuchen-Bonhamton Rd. Alvin B. Fox, Perth Amboy, is County Engr.

New Brunswick, N. J.—The Board of Chosen Freeholders of Middlesex County contemplates rebuilding the drawbridge over the canal at Albany St. Alvin B. Fox, Perth Amboy, is County Engr.

Bethlehem, Penn.—The County Commissioners of Lehigh and Northampton Counties will shortly advertise for bids for repairing and strengthening the Lehigh River Bridge at Bethlehem. The estimated cost is $40,000. R. S. Rathbun, Allentown, is County Engr. of Lehigh County.

✚Coatesville, Penn.—The County Controller and the Commissioners of Chester County, West Chester, have awarded the contract for the construction of a two-span reinforced-concrete bridge over the west branch of the Brandywine Creek in East Fallowfield Township, south of Coatesville, to DUNLEAVY BROS., Coatesville, at $6500. Other bidders were: Bender Construction Co., $7098; Corcoran Construction Co., $6989; McCormick & Son, $6781; Bean & Need, $6744.

Easton, Penn.—Bids will be received until Sept. 3 by the Commissioners of Northampton County for the construction of Bridge No. 1822 over Jacoby Creek in Upper Mt. Bethel Township. It will be of reinforced concrete.

✚Harrisburg, Penn.—(Official)—The Commissioners of Dauphin County have awarded the contract for a concrete bridge over the tracks of the Philadelphia & Reading Ry. at 19th St. to the FERRO CONCRETE CO., Harrisburg, at $17,866. Other bidders were: Stucker Construction Co., $19,430; Whittaker & Diehl, $18,630; H. R. Reimard, $18,722; S. W. Shoemaker & Son, $19,177. C. M. Hershey is County Engr. Noted Aug. 5.

Johnstown, Penn.—Revised plans for the proposed Horner St. Bridge have been submitted to the State Water Supply Commission for approval. The plans provide for a single span 225 ft. long. The cost will be approximately $50,000. Lee Masterton is City Engr.

✚★Philadelphia, Penn.—The Department of Public Works has awarded the contract for a reinforced-concrete bridge to carry Whitby Ave. over the tracks of the Philadelphia, Baltimore & Washington R.R. to F. J. BOAS, Philadelphia, at $34,741; the contract for a bridge on Front St. over the Municipal Hospital Drive was awarded to the PHILADELPHIA PAVING CO., at $11,792. List of bidders noted Aug. 12.

Luray, Va.—(Official)—Bids will be received until noon, Aug. 25, by the Clerk of the Circuit Court of Page County for the construction of a 143-ft. steel bridge over Naked Creek between Page and Rockingham Counties.

Charleston, W. Va.—The County Court of Kanawha County has instructed Frank G. Burdette, Engr., to prepare plans for a bridge about 150 ft. long over Davis Creek. New bridges will also be built over Morris Creek, just below Montgomery, and over Upper Creek, near Handley. These two bridges will cost about $8000 for the two.

Middlebourne, W. Va.—(Official)—Bids will be received until 1:30 p.m., Aug. 28, by the County Court of Tyler County for the construction of a reinforced-concrete arch at the Pollard crossing of Elk Fork Creek, Ellsworth District. J. E. Smith is Clk. of Court.

Dalton, Ga.—The Commissioners of Whitfield County plan to build a reinforced-concrete bridge across Coarulla Creek.

Jesup, Ga.—It is reported that the Commissioners of Liberty County, Hinesville, and Wayne County, Jesup, plan the construction of an inter-county bridge over the Altamaha River.

Miami, Fla.—An election will be held Sept. 21 to vote on the question of a bond issue for the construction of two bridges over the Miami River; one at Ave. D, costing $75,000, and one at Ave. G to cost $25,000. B. H. Klyce is City Engr. Noted July 15.

Elizabethtown, Ky.—(Official)—Bids will be received some time in October by R. P. Frankle, Road Engr. of Hardin County, Elizabethtown, for the construction of the Wooldridge Ferry Bridge. The estimated cost is $17,651, including abutments and fill, or $16,800 without them. J. S. Irwin is Clk. of Hardin County. Noted Aug. 12.

Lexington, Ky.—The Commissioners of Fayette and Madison Counties plan, according to press reports, to build a $150,000 bridge across the Kentucky River between the two counties.

Lexington, Ky.—It is reported that the Louisville & Nashville R.R. will build new approaches to its viaducts on Jefferson and Main St., Lexington. W. H. Courtenay, Louisville, is Ch. Engr.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 24, by Philip Fosdick, Dir. of Pub. Ser., for rebuilding the bridge on Wehrmann Ave. over the tracks of the Cincinnati, Lebanon & Northern Ry.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 27, by Philip Fosdick, Dir. of Pub. Ser., for the reconstruction of all existing bridges on Este and Clinton Springs Ave. Parke S. Johnson is Secy., Dept. of Pub. Ser.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 3, by the Board of Commissioners of Hamilton County for the construction of a concrete bridge and culverts on Ridgeway Ave., Springfield Township, Specification No. 807, and for a concrete bridge on Rapid Run Rd., west of Neeb Rd., Delhi Township, Specification No. 810. Albert Reinhardt is Clk. of Comrs.

Grand Rapids, Ohio—Bids will be received until 10 a.m., Sept. 3, by Charles J. Sanzenbacher, Audr. of Lucas County, Toledo, for constructing a creosoted wood block floor and painting the bridge over the Maumee River at Grand Rapids, Wood and Lucas Counties. C. E. Stinebaugh, Bowling Green, is Audr. of Wood County.

Niles, Ohio—Bids will be received until Aug. 23 by the Board of Commissioners of Trumbull County, Warren, for the construction of the substructure and superstructure of the Summit St. Bridge. W. R. Harrington is County Audr.

Bedford, Ind.—(Official)—Bids will be received until 1 p.m., Aug. 28, by the Board of Commissioners of Lawrence County for the construction of four county bridges. Ezra W. Edwards is County Audr.

Crawfordsville, Ind.—The Board of Commissioners of Montgomery County has appropriated $4000 for rebuilding Remley Bridge over Offield Creek.

Richmond, Ind.—Bids will be received until 11 a.m., Aug. 21, by L. S. Bowman, Audr. of Wayne County, for the construction of the Spruce St. Bridge over Paddy's Run in the town of Centerville; a concrete culvert about one mile south of Centerville; the North 12th St. Bridge over the White Water River in the city of Richmond, and repairing the Short Creek Bridge on the Richmond and Liberty Pike in Wayne Township.

Detroit, Mich.—Bids will be received until Sept. 1 by the Department of Public Works for repairing the Belle Isle Bridge at a cost not to exceed $100,000. George H. Fenkell is Comr. of Pub. Wks. Noted June 17 and July 22.

✚Dixon, Ill.—(Official)—The Superintendent of Highways of Lee County has awarded the contract for reflooring the Grand Detour Bridge between Lee and Ogle Counties to the FREEPORT BRIDGE CO., Freeport, at $7778. Other bidders were: North Steel & Concrete Co., Freeport, $8386; Meffley & Son, Galena, $9010; Wellingford Co., Prophetstown, $8962; Bilmore Co., Ashton, $8834; Winamac Construction Co., Winamac, Ind., $7759; E. B. Lloyd, Dixon, $7580; McAlpine Co., Dixon, $8378; Cox & Johnson, Dixon, $7995. Noted Aug. 5.

✚Audubon, Iowa—(Official)—The Board of Supervisors of Audubon County has awarded the contract for the construction of five concrete culverts and two bulkheads to the JENSEN CONSTRUCTION CO., Kimballton, Iowa, at $4013. Other bidders were: Lang Construction Co., $4225; Kimballton Construction Co., $4250. C. D. Forsbeck is County Engr. Noted Aug. 5.

Des Moines, Iowa—Plans are being prepared by John W. Budd, County Engr. of Polk County, for the construction of about 20 bridges and culverts to cost from $500 to $1000 each. Bids will soon be asked. F. J. Alber is County Audr.

Guthrie Center, Iowa—(Official)—Bids will be received until 1 p.m., Aug. 24, by the Auditor of Guthrie County for the construction of three county bridges.

Austin, Minn.—Bids will be received until 4 p.m., Sept. 10, by the Commissioners of Mower County for the construction of 19 bridges. O. J. Simmons is County Audr.

Ellinwood, Kan.—(Official)—Bids will be received until noon, Sept. 7, by C. F. Younkin, Clk. of Barton County, Great Bend, for the construction of a reinforced-concrete bridge across the Arkansas River between Lakin and Comanche Townships, about one mile south of Ellinwood. The bridge will be about 400 ft. long with a 24-ft. roadway. Noted July 22.

Ellsworth, Kan.—Bids will be received until Sept. 18 by the Commissioners of Ellsworth County for the construction of a 280-ft. reinforced-concrete bridge, for repairing a 250-ft. steel bridge, and for building eight miles of roads and culverts in Garfield and Empire Townships. A. J. Klingenschmidt is County Clk. G. R. Wolf is County Engr.

✚Wichita, Kan.—(Official)—The Commissioners of Sedgwick County have awarded the contract for a reinforced-concrete bridge over the drainage canal on 21st St. to the GLOBE CONSTRUCTION CO., Wichita, at $3797. Other bidders were: Canton Bridge Co., $4155; Missouri Valley Bridge & Iron Co., $3823. An appropriation of $4000 is available for the work. H. B. Barrett is County Clk. Noted July 29.

✚Ft. Yates, N. D.—(Official)—The Commissioners of Sioux County have awarded the contract for the construction of two steel bridges to the D. D. BIDWELL CO., Hazelton, N. D., at $3960. Other bidders were: M. A. Adams & Co., $4196; Linton Bridge Construction Co., $4260; Fargo Bridge & Iron Co., $4085; Iowa Bridge Co., $3996. Noted July 22.

Chillicothe, Mo.—It is reported that the Livingston County Court will soon ask bids for replacing bridges destroyed by the recent floods. The estimated cost is $75,000.

Llano, Tex.—It is reported that the Commissioners Court of Llano County has ordered plans prepared for a new bridge over the Colorado River. James T. Powers, Dallas, is Engr.

Lawton, Okla.—The Board of Commissioners of Comanche County has appropriated $15,000 for the construction of a number of small concrete and steel bridges. S. A. Joyner is Engr.

✚Tucumcari, N. M.—James A. French, State Engr., Santa Fé, has awarded the contract for the construction of five bridges in Quay County to the MISSOURI VALLEY BRIDGE & IRON CO., Kansas City, Mo., at $10,710.

Walla Walla, Wash.—(Official)—Bids will be received until 2 p.m., Sept. 10, by the Commissioners of Walla Walla County for the construction of the Swegle Bridge. It will consist of a 102-ft. steel span or two 50-ft. reinforced-concrete arches. G. C. Cookerly is County Engr. Noted Aug. 5.

✚Baird, Calif.—(Official)—The State Highway Commission, Sacramento, has awarded the contract for a 395-ft. reinforced-concrete bridge across the Pit River to the ROSS CONSTRUCTION CO., Sacramento, at $28,235. Noted Aug. 5.

Berkeley, Calif.—(Official)—The lowest bid received by the City Council on Aug. 3 for the construction of a concrete bridge across Codornices Creek on Walnut St. was that of D. McDonald, Livermore, Calif., at $5675. Noted July 22.

✚Bradley, Calif.—The Board of Supervisors of Monterey County, Salinas, has awarded the contract for a reinforced-concrete bridge across the Salinas River at Bradley to W. L. GILLHAM & SON, at $14,400.

✚Burlingame, Calif.—The City Trustees have awarded a contract for the construction of 10 bridges to CHRIS LARSEN, Easton, Calif., at $20,575.

El Monte, Calif.—The lowest bid received by the Supervisors of Los Angeles County, Los Angeles, for the construction of a steel bridge over the San Gabriel River near El Monte was that of Mesmer & Rice, Marsh-Strong Bldg., Los Angeles, at $93,000. Noted July 29.

Fairfield, Calif.—It is reported that the Board of Supervisors of Solano County will receive bids in September for the construction of three bridges, one over Pleasant Valley Creek in Bacaville Township, and two over Green Valley Creek, one near Cordelia and the other near Nightingale Ranch.

✚Martinez, Calif.—The City Trustees have awarded the contract for the construction of two bridges across Alhambra Creek to MAGEE & LAYAS, San Francisco, at $18,000.

Red Bluff, Calif.—(Official)—Bids were opened Aug. 2 by the Board of Supervisors of Tehama County for the construction of three bridges. The lowest bids were: Ross Construction Co., Sacramento, at $109,000 for the Sand Slough Bridge; McLeran & Peterson at $14,000 and $17,000 respectively for the Samson Slough and Paynes Creek Slough Bridges. H. S. Kuhn is County Clk. Noted July 22.

Ventura, Calif.—Bids will be received until Aug. 25 by the Board of Supervisors of Ventura County for constructing the south abutment and approach to the Saticoy Bridge, Saticoy, and for the construction of the Conejo Bridge near Camarillo, to consist of eight 30-ft. spans. J. R. McCloskey is County Clk.

Ventura, Calif.—It is reported that plans are being prepared by the County Surveyor for replacing 12 bridges and culverts destroyed by the floods of last year. The estimated total cost is $45,000.

★China—(Official)—Bids will be received until 10 a.m., Sept. 25, by Robert W. Hunt & Co., Consult. Engr., Monongahela Bank Bldg., Pittsburgh, Penn., for supplying about 845 tons of steel bridges for the Hankow-Ichang Section of the Chinese Hankow-Szechuan Government Ry.

WATER SUPPLY—IRRIGATION

Jamestown, N. Y.—(Official)—Plans are being prepared by Chapman & Graham, Gokey Bldg., Jamestown, for the construction of a 32,500-gal. covered concrete reservoir, pumping station and pipe line for the Atlas Marvel & Level Furniture Companies of Jamestown.

★New York, N. Y.—(Official)—Bids were received Aug. 10 by the Board of Water Supply for making six borings at the Hudson siphon of the Catskill aqueduct in Fishkill as follows: E. J. Longeer Co., $13,445; Harper Machine Co., $12,163; Sulli-

van Machine Co., $12,145; Pennsylvania Drilling Co., $13,343; W. G. Stearns, $22,078; S. A. Knowles, $14,702; Sprague & Henry, $13,041, and Giles Clark, $16,454. Noted July 22.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., Aug. 31, by the Board of Water Supply, Municipal Bldg., for furnishing and erecting water-pipe equipment for operating valves in the shafts of the city tunnel of the Catskill Aqueduct.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract has been awarded to the JOHN H. HEARN CONSTRUCTION CO., 63 West 46th St., New York, at $20,000, for constructing the New Utrecht pumping station at 14th St., Borough of Brooklyn. Noted July 1.

East Orange, N. J.—(Official)—Bonds for $125,000 have been sold, the proceeds of which will be used for the construction of a distributing system. Lincoln E. Rowley is City Clk. Noted July 22.

Gloucester City, N. J.—Bids will be received until Aug. 20 by the city for furnishing and installing equipment for the water-works and driving a deep well. A. Blatchley, Drexel Bldg., Philadelphia, Penn., is Engr. and J. F. Lenny is City Clk.

Pitman, N. J.—The Board of Public Utility Commissioners has ordered the Pitman Water Supply Co. to install fire hydrants in the borough.

✚Easton, Penn.—The contract has been awarded by the South Easton Water Co. to the R. T. & C. D. STEWART CO., Easton, for constructing about a mile of water mains from 23rd St. to the Elden tract in Palmer Township.

Johnstown, Penn.—The Johnstown Water Co. plans to build an 800,000,000-gal. reservoir on Laurel Run.

Annapolis, Md.—The Annapolis Water Co. has decided to install a liquid chlorine plant. Noted May 20.

Bloomington, Md.—The Piermont Water-Works Co. plans to install a liquid chlorine plant.

Silver Spring, Md.—The installation of a water system is under consideration by the Commissioners of Montgomery County.

Orange, Va.—An election will be held Aug. 31 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the improvement of the water system.

South Boston, Va.—(Official)—Bonds have been voted by the citizens, the proceeds of which will be used for the installation of a water system. As soon as the bonds are sold, the work will be advertised. W. L. Penick is Mayor. Noted Feb. 11 and Aug. 5.

Apex, N. C.—A franchise has been granted to the Municipal Service Corporation to construct and operate water, sewer and electric-light systems.

Lumberton, N. C.—The improvement of the water system and electric-light plant is contemplated by A. E. White, Mayor. The estimated cost is $25,000. Gilbert C. White, Charlotte, is Consult. Engr. Noted Dec. 3, 1914.

Raeford, N. C.—The citizens voted in favor of issuing bonds for $30,000, the proceeds of which will be used for the construction of water and sewer systems.

Salisbury, N. C.—Bonds for $125,000 have been voted by the citizens, the proceeds of which will be used for the construction of a pumping plant on the Yardkin River. Noted May 6 and July 15.

Atlanta, Ga.—An election will be held Sept. 30 to vote on the question of issuing $750,000 in bonds, the proceeds of which will be used for the improvement of the water system. R. M. Clayton is Chn. of Construction. Noted Aug. 5.

Boston, Ga.—Plans are being prepared by W. Hopson Goobloe, Macon, for the extension of the water system. The estimated cost is $25,000. Noted July 29.

Salerno, Fla.—According to press reports a company will be incorporated with $200,000 capital by B. W. Mulford and others and will construct a water system and electric-light system.

Gretna, La.—Bids will soon be received for the construction of a water system. Plans have been prepared by Frank T. Payne, City Engr. The estimated cost is $45,000. Noted July 15 and 22.

South Fulton, Tenn.—(Fulton post office)—An election will be held Sept. 4 to vote on the question of issuing $5000 in bonds, the proceeds of which will be used for the construction of a water system.

✚Shelbyville, Ky.—The contract has been awarded to the CONTINENTAL JEWEL FILTRATION CO., New York, N. Y., at $15,000, by the Kentucky Utilization Co. for the installation of a filtration plant. Noted Apr. 29.

Attica, Ohio—Bids will be received the latter part of September for the construction of a filtration plant. The estimated cost is $9000. John Schoppler is City Clk. Noted July 22.

Cleveland, Ohio—Bids will be received until noon, Aug. 20, by A. R. Callow, Comr. of Pur. and Supplies, for making borings at the site of the proposed Kirkland filter plant and for excavating test pits.

East View, Ohio—(Warrensville post office)—(Official)—Bids will be received until noon, Aug. 30, by Charles E. Burger, Clk., for constructing a 6-in. water main in Allen and Elm St. The Pease Engineering Co., Marshall Bldg., Cleveland, is Engr. Noted July 29.

Kings Mills, Ohio—The Peters Arms Co. will install a cold water system at its plant. About 4500 ft. of pipe will be required.

Middletown, Ohio—The citizens voted in favor of issuing bonds for $120,000, the proceeds of which will be used for the construction of a water system.

Wellington, Ohio—The low bidder for constructing a water system was Gangla & Shannon, Akron, at $35,615. The Kennicott Co., 134 South La Salle St., Chicago, Ill., was low bidder at $5000 for filter equipment. Noted July 15.

Indianapolis, Ind.—The Board of Public Works has authorized the laying of water mains in portions of Beechwood Ave., Ohio and Gale St. and in Hemlock Ave.

New Albany, Ind.—Bids will soon be received by the New Albany Water Works Co. for the construction of a filtration plant.

Chicago, Ill.—Bids will be received until Aug. 20 by W. R. Moorhouse, Comr. of Pub. Wks., for constructing a chlorinating plant at the 22nd St. pumping station.

Monticello, Ill.—(Official)—Bids will be received until 7 p.m., Sept. 7, by the City Clerk, for furnishing and installing a deep well pump and service pumps.

St. Charles, Ill.—Bids will be received about Sept. 1 by the Local Improvement Board for making extensions to the water system. About three miles of water mains will be laid. John W. Wilson, Haines Blk., St. Charles, is Engr.

Sparta, Ill.—Bids will be received until Aug. 24 by I. F. Swain, City Clk., for constructing a water system. Noted June 3.

Jefferson, Wis.—(Official)—Bids will be received until 2:30 p.m., Aug. 30, by the Water & Light Department, for the construction of two steel tainter gates, each 16x6½ ft. with gate hoists and three concrete piers. C. B. Stewart, Madison, is Consult. Engr.

Kewaunee, Wis.—Plans have been prepared for the construction of a new water system. Bonds for $30,000 have been voted for the construction of the water system.

Manitowoc, Wis.—The city plans to install two pumps at the water-works. Arthur Reichert is City Clk.

Milwaukee, Wis.—The Council contemplates spending $7500 to make an investigation including test borings of feasibility of extending the Linwood Ave. intake water tunnel 2500 ft.

Arcadia, Iowa—Bonds for $7500 have been voted by the citizens. The proceeds will be used for the construction of a water system.

Charlton, Iowa—(Official)—Bids will be received until 2 p.m., Aug. 24, by W. H. Householder, City Clk., for constructing an earth dam of about 55,000 cu.yd. of embankment, pump house, gravity filter plant, pumps, motors, engines and 12,800 ft. of 10-in. force main. M. G. Hall, Centerville, is Engr. Noted July 1 and Aug. 5.

✚Denison, Iowa—(Official)—Bids were received Aug. 12 for drilling a well as follows: W. H. GRAY & BRO., Chicago, Ill., at $6000 (awarded contract); R. F. Shirkliff, Robinson, Ill., $6450; S. B. Geiger, Chicago, Ill., $6800; W. H. Cater Contracting Co., Chicago, Ill., $6900; C. P. Brandt Co., Indianapolis, Ind., $8300, and Cambridge Drilling Co., Cambridge, Ill., $8500. Noted July 15 and 29.

✚Riverside, Iowa—The contract for the laying of water mains was awarded to BASH & JONES, Joplin, Mo., at $8874. Other bidders were: Alamo Engine & Supply Co., Omaha, Neb., $8778; Public Service Construction Co., Omaha, Neb., $9339; the Bickel Co., Kansas City, Mo., $9021; Ludlow Valve Co., Chicago, Ill., $9085; Theodore Becker, Geneseo, Ill., $9988; C. W. Roland & Co., Des Moines, $9362. The contract for the constrion of an elevated tank was awarded to the DES MOINES BRIDGE & IRON CO., Des Moines, at $12,351. The Chicago Bridge & Iron Co., Chicago, Ill., at $13,200, was the only other bidder. Noted July 22.

Shelby, Iowa—Plans are being prepared by J. H. Mayne, Council Bluffs, for the construction of a water system.

Traer, Iowa—A special election will be held to vote on the question of issuing $6000 in bonds, the proceeds of which will be used for the enlargement of the water system. Noted May 27.

✚Duluth, Minn.—The contract has been awarded to SIMON JOHNSON, at $6012, by the City Council, for laying water and gas mains in Minnesota Ave.

Luverne, Minn.—(Official)—Bids will be received until Aug. 24 by S. C. Rea, City Recdr., for constructing a reinforced-concrete reservoir.

Oswego, Kan.—The citizens contemplate issuing bonds, the proceeds of which will be used for the extension and improvement of the water system.

Milligan, Neb.—Bids will be received until 10 a.m., Aug. 24, by the City Clerk for constructing a water system. The estimated cost is $9800. The Martz Engineering Co., Lincoln, is Engr. Noted June 10.

Pleasanton, Neb.—Bonds for $9000 have been voted. The proceeds will be used for the construction of a water system. E. H. Morey, Kearney City, is Engr.

Missoula, Mont.—(Official)—The citizens, at a recent election, voted against the question of issuing bonds, the proceeds of which was to have been used for the construction of a water system. Noted July 1.

Eldorado Springs, Mo.—An election will be held Aug. 24 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for the extension of the water system. O. E. Siders is City Clk.

Plattsburg, Mo.—Plans are being prepared by E. B. Murray, 920 Walnut St., Kansas City, for the construction of a water system, the estimated cost of which is $28,000.

Adkadelphia, Ark.—A filter will be constructed on Ouachita River by the Arkansas Light & Power Co. The estimated cost is $75,000. Noted Oct. 1.

Sparkman, Ark.—The construction of a water system is under consideration.

Walnut Ridge, Ark.—The city plans to construct a water system, the estimated cost of which is $40,000. W. E. Beloate is Comr. Noted June 3.

Mineral Wells, Tex.—At a recent election the citizens voted against the question of issuing bonds for $74,000. The proceeds was to have been used for the purchase of Lake Pinto and for the construction of a water system. Noted July 8.

Hill City, Idaho—A water system will be installed by H. Scruggs, Hill City, according to press reports.

Hollister, Idaho—A water system will be installed by the Townsite Co. R. E. Shepherd is interested.

Pocatello, Idaho—An election will be held to vote on the question of issuing $400,000 in bonds, the proceeds of which will be used for the construction of a municipal water system.

St. Maries, Idaho—(Official)—Bids will be received until noon, Aug. 23, by Charles R. Schulte, City Clk., for laying and relaying wood and steel water mains and constructing a small concrete dam. A. L. Jaqueth is Engr. The estimated cost is $37,000. Noted July 22 and Aug. 5.

Bingham Canyon, Utah—(Official)—Bonds for $17,000 have been sold. The proceeds will be used for the improvement of the water system. F. W. Quinn is Town Clk. Noted July 29.

Aberdeen, Wash.—Bonds for $500,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. Noted Aug. 5.

Bremerton, Wash.—Bonds for $40,000 have been voted by the citizens, the proceeds of which will be used for the improvement of the water system.

Hillyard, Wash.—Plans will be prepared by Sawyer Bros., White Bldg., Seattle, for the construction of a reservoir. The estimated cost is $8000. Noted Aug. 12.

†Pateros, Wash.—The contract has been awarded to A. E. WIDLAND, Pateros, at $7196, for the construction of a water system. Noted July 22.

Portland, Ore.—The City Commission has granted authority to Commissioner Daly, Dept. of Pub. Utilities, to make a preliminary investigation for supplying the suburban part of St. John, recently annexed to Portland, with water.

Portland, Ore.—D. D. Clark, Water Engr., is making surveys for the construction of a pumping station, reservoirs and laying mains in Linnton addition.

†West Lynn, Ore.—The contract has been awarded to the OREGON ENGINEERING & CONSTRUCTION CO., Oregon City, at $65,000, for constructing a distributing system. Noted July 8.

Los Angeles, Calif.—The State Water Commission has been petitioned by the city to allow 12 years for the completion of the water-supply project. E. P. Scattergood is Engr.-in-Charge.

Chatham, N. B.—A reservoir will be constructed at an estimated cost of $20,000. A. N. McKay is Engr.

Beauceville, Que.—Bids will soon be received by the Town Council for the construction of water, drainage and electric-light systems. F. Mignault, Sherbrooke, is Engr. Noted June 17.

SEWERS

Rochester, N. H.—Bids will be received until Aug. 31 by the Water and Sewer Committee for the construction of approximately 8100 ft. of 8- to 12-in. pipe sewers. F. Hussey is Clk. of the Water and Sewer Com.

†Boston, Mass.—(Official)—Bids were received Dec. 23 by the Department of Public Works for the construction of the Faneuil Valley Brook Conduit in Faneuil and Oakland St. from H. F. SPINACH, at $16,584 (awarded contract); A. Cefalo, $16,661; J. Landis, $17,193; McCarthy & Walsh, $17,297; M. De Sisto, $17,390; James J. Conway, $17,391; West Roxbury Trap Rock Co., $17,567; M. H. Kelley, $17,962; J. Driscoll Son, $17,978; Merrimack Construction Co., $18,149; A. Barufaldi, $18,445; William L. Dolan, $18,979; J. McCourt Co., $22,539; Engineer's estimate, $18,928. Noted Dec. 17.

†Pittsfield, Mass.—The contract for the construction of 17 new filter beds at the sewage-disposal plant has been awarded to R. W. EMERSON, Pittsfield, at $21,544. Noted July 29.

★Woonsocket, R. I.—(Official)—Bids will be received until 4:45 p.m., Aug. 24, by the Board of Sewer Commissioners for the construction of approximately 4400 ft. of 8-in. and 500 ft. of 15-in. sanitary sewers and appurtenances. Frank H. Mills is City Engr.

Brockport, N. Y.—Bids will be received until Aug. 25 by F. E. Reynolds, Village Clk., for the construction of a sewage-disposal plant. The estimated cost is $25,000. Noted June 3.

Buffalo, N. Y.—The City Council will construct sewers in Texas and Babcock St.

★Buffalo, N. Y.—(Official)—Bids will be received until 2:30 p.m., Aug. 25, by the State Hospital Commission, Albany, for the renewal of sewer lines at the Buffalo State Hospital. E. S. Elwood is Secy. State Hospital Comn.

†New York, N. Y.—(Borough of Bronx)—(Official)—The contract for the construction of sewers and appurtenances in Randall, Metcalf and Bronx River Ave. has been awarded to RODGERS & HAGGERTY. Noted July 22.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Aug. 25, by L. H. Pounds, Borough Pres., for the construction of sewers in Clara, 54th, East 26th St., Kenmore Pl., Dumont and Rochester Ave.

†New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for the relocation and reconstruction of sewers in Rector St. has been awarded to the LAWRENCE CONTRACTING CO., 2409 Walton Ave., New York, at $11,886. Noted Aug. 12.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received Aug. 16 by Marcus M. Marks, Borough Pres., for the construction of sewers in Ellwood St. and Sherman Ave., from: Di Menna & De Paola, $6269; C. E. Farrell Co., $5005; Knight & Di Micca, $5812; Lawrence Contracting Co., $5452; J. J. Halduvan, $5706; Carafagno & Dragonetti, $5187; Casperino & De Blasio, $6068; Briggs & McLaughlin, $5348; Patrick Reilly, $5717; Joseph L. Brennan, $5964; Di Menna & De Blassia, $5005; Melrose Construction Co., $5297; W. F. Elray, 1640 Maconds Rd., New York, $3512. Noted Aug. 12.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until noon, Aug. 24, by Calvin D. Van Name, Borough Pres., for the reconstruction of sewers in Taylor St.

★Oswego, N. Y.—(Official)—Bids will be received until 2 p.m., Aug. 20, by the Department of Public Works for sewer construction. Charles W. Linsley is Comr. of Pub. Wks.

★Yorktown Heights, N. Y.—(Official)—Bids will be received until 2:30 p.m., Aug. 31, by William B. Osgood Field, Pres. of Bd. of Mgrs., New York State Training School for Boys, for the construction of sewers and a sewage-disposal plant at the New York State Training School for Boys.

Jersey City, N. J.—Bids will be received until 11 a.m., Aug. 26, by the city for constructing sewers in Jackson Ave. from Woodlawn Ave. and Warner St. M. I. Fagen is City Clk.

Newark, N. J.—Bids will be received until 3:30 p.m., Aug. 26, by the Board of Street and Water Commissioners for the construction of Section No. 1 of the Meadowbrook Outlet Sewer. M. R. Sherrerd is Engr.

South Orange, N. J.—Bids will be received until 8 p.m., Sept. 7, by the Township Committe for the construction of sanitary sewers in Millburn Ave. Edmund R. Halsey is Engr.

†Erie, Penn.—The contract for the construction of sewers in Ash and Third St. has been awarded to the CENTRAL OHIO CONSTRUCTION CO., at $4503.

Lebanon, Penn.—Bids will be received until 5 p.m., Aug. 25, by T. R. Crowell, City Engr., for the construction of a sewage-disposal plant with a capacity of 900,000 gal. Noted July 29.

Sellersville, Penn.—Bids will be received until Aug. 30 by H. J. Zane, Borough Secy., for the construction of approximately 22,640 ft. of 8-, 10- and 12-in. sewers. Bascom & Sieger, Room 505, Allentown National Bank Bldg., Allentown, is Engr.

West Chester, Penn.—Bids will be received until Aug. 24 by the city for the construction of a sewage-disposal plant and 1500 ft. c.-i. force mains. Remington & Vosburg, Camden, N. J., is Consult. Engr. Noted July 29.

Rockville, Md.—Plans are being prepared for the construction of a sewer system and a sewage-disposal plant in the Little Falls Branch District. The estimated cost is $125,000. Noted July 8.

Silver Springs, Md.—(Official)—The State Board of Health has instructed the County Commissioners of Montgomery County to install sewer and water systems.

Towson, Md.—The city contemplates the construction of a sewer system and a sewage-disposal plant. The estimated cost is $40,000.

Harrisonburg, Va.—(Official)—An Imhoff sewage-disposal plant and filter beds will be constructed by the city forces. The estimated cost is $6000. J. H. Downing is Mayor. Noted Aug. 5.

Philippi, W. Va.—At a recent election the citizens voted to issue $20,000 in bonds. Part of the proceeds will be used for the construction of sewers.

Salisbury, N. C.—At a recent election the citizens voted to issue $20,000 in bonds. Part of the proceeds will be used for the construction of sewers. Noted July 15.

†★Greenville, S. C.—(Official)—The contract for the construction of sanitary sewers has been awarded to CASE & COTHRAN, Atlanta, Ga., at $11,006. Other bids were: Slattery & Henry, Greenville, $12,607; Sullivan, Long & Hagerty, Bessemer, Ala., $11,617; Porter & Boyd, Charlotte, N. C., $14,338; B. F. Meeks Construction Co., Atlanta, Ga., $12,603; Dysard Construction Co., Atlanta, Ga., $11,206; Smallwood Construction Co., Chattanooga, Tenn., $15,057; J. R. Lawrence & Son, Greenville, $11,509. Noted Aug. 5.

Dunedin, Fla.—An election will be held Sept. 14 to vote on the question of issuing $5500 in bonds. The proceeds will be used for the construction of sanitary sewers and a sewage-disposal plant. Walter Bull is Mayor. Noted Aug. 5.

Miami, Fla.—An election will be held Sept. 21 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used to pay the city's share of the cost of constructing sanitary sewers. Noted July 8.

Ocala, Fla.—(Official)—Bids will be received until Sept. 14 by J. M. Meffert, Pres. of the Council, for the construction of a sewer system and a sewage-disposal plant. The estimated cost is $100,000. Noted Aug. 12.

Akron, Ohio—Bids will be received until noon, Aug. 21, by C. P. Parker, Dir. of Pub. Wks., for the construction of sewers in La Croix, Gertrude, Abel and Thornton St.

Alliance, Ohio—Bids will be received about Sept. 10 by the city for the construction of a sewage-disposal plant. The estimated cost is $40,000. W. P. Barnum is Mayor.

Cincinnati, Ohio—Bids were received July 27 by the Director of Public Service for the construction of sewers in (a) Pogue Ave., (b) Seegar and Waverly Ave., from: Runck Bros., (a) $5701; M. J. McCarthy, (a) $6035; Evan Evans, (a) $6260, (b) informal; John Ruebel, (a) $6731; Wagner & Boehning, (a) $7637, (b) $1744; Welling & Franz, (b) $1614; Cavanaugh & Connelly, (b) $1842. Noted Aug. 22.

Cincinnati, Ohio—Bids will be received until noon, Aug. 26, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in Knorr Ave. and Pinckney St. and right-of-way.

†Cincinnati, Ohio—The contract for the construction of sewers in South Court St. has been awarded to THOMAS P. STRACK, at $5623.

Findlay, Ohio—The City Council will construct 10- and 12-in. sewers in various streets. The estimated cost is $8174.

†Hamilton, Ohio—Contracts for sewer construction have been awarded by the Board of Control to CHARLES F. SMITH CO., Dayton, at $21,389, for constructing sanitary sewers in District No. 1 and to JOHN L. WALKER CO., Hamilton, at $22,507, for constructing sanitary sewers in District No. 2.

Mansfield, Ohio—At a recent election the citizens voted to issue $100,000 in bonds, the proceeds of which will be used for the construction of a sewage-disposal plant. Noted May 6.

Toledo, Ohio—Bids will be received until 10 a.m., Aug. 31, by Charles J. Sanzenbacher, Clk. of the Bd. of Lucas County Comrs., for the sale of $20,000 in bonds. The proceeds will be used for the construction of local Sanitary Sewer No. 20 in Lucas County.

Youngstown, Ohio—Bids will be received until noon, Aug. 23, by the Director of Public Service for the construction of sewers in Halvin, Poplar and Hamburg St. H. C. Fox is City Clk.

Lafayette, Ind.—(Official)—Bids will not be received this year for the construction of storm and sanitary sewers. H. B. Overesch, Jr., is City Engr. Noted Aug. 5.

Logansport, Ind.—Plans are being prepared by the City Engineer for the construction of sewers in the eastern section of the city. The estimated cost is $350,000.

Muncie, Ind.—Plans are being prepared by B. F. Deardorff, City Engr., for the construction of a sewer system in the Congerville and Industry Sections. The estimated cost is $50,000.

✚Fenton, Mich.—The contract for the construction of a sanitary sewer system has been awarded to WHALEY & EDWARDS, Milan, at $19,368.

Grand Rapids, Mich.—The city has been granted an extension of time, by the Supreme Court, until Jan. 3, 1916, in which to stop the pollution of the Grand River by constructing a sewage-disposal plant. Hoad & Decker is Engr. Noted July 15.

Chicago, Ill.—Bids will be received until 11 a.m., Aug. 20, by the Board of Public Works for the construction of sewers in various streets.

✚Galesburg, Ill.—The contract for the construction of sewers in North West and various other streets has been awarded to D. E. KEELER CO., Davenport, at $25,225.

Salem, Ill.—Plans are being prepared by the Caldwell Engineering Co., Jacksonville, for the construction of a sewer system. The estimated cost is $50,000.

Kenosha, Wis.—The City Council contemplates the construction of sewers estimated to cost $100,000.

✚Racine, Wis.—The contract for the construction of the Augusta St. sewer has been awarded to E. R. HARDING, at $5800.

Racine, Wis.—Bids will be received until 10 a.m., Aug. 21, by the Board of Public Works for the construction of sewers in Munroe, Washington, Wright and Lathrop Ave.

✚Waukesha, Wis.—The contract for the construction of sewers in Delafield, Prospect, Bidwell, Ellis and Farewell St. has been awarded to FRANK CAYLL, at $0.96 per lin. ft.

Clinton, Iowa—Bids will be received until 8 p.m., Sept. 1, by the city for the construction of 8-, 24-, 30- and 54-in. sewers in various streets.

Clinton, Iowa—(Official)—Bids will be received until Sept. 14 by the city for the construction of sewers in the Fourth Ward. J. G. Thorne is City Engr. Noted Aug. 12.

✚Fairfield, Iowa—(Official)—The contract for the construction of sanitary sewers has been awarded to the ADAMS-MARTIN CONSTRUCTION CO., Centerville, at $15,605. Noted July 29.

✚Hampton, Iowa—The contract for the construction of approximately 38 miles of tile sewers has been awarded to the PLYMOUTH CLAY PRODUCTS CO., Ft. Dodge, at $165,000.

✚McGregor, Iowa—The contract for the construction of approximately 6350 ft. of 6- and 12-in. vitrified pipe sewers has been awarded to the MOORE-SIEG CONSTRUCTION CO., Waterloo, at $4341.

✚Mason City, Iowa—The contract for the construction of ateral sewers has been awarded to the A. L. WILLSON CO.

Primghar, Iowa—Bids will be received about Sept. 6 by the city for the construction of a sewer system. Bruce, Standevan & Boynton, 430 Bee Bldg., Omaha, Neb., is Engr. Noted July 22.

✚Spencer, Iowa—(Official)—The contract for the construction of approximately 6000 ft. of 8-, 10- and 12-in. sewers has been awarded to P. N. KRUSE, Spencer, at $4500. Other bidders were: M. A. Camery, Harlan; Dearborn Construction Co., Waterloo; A. L. Chesley, Minneapolis, Minn.; W. C. Fraser, St. Paul, Minn.; Anderson & Empir, Marshalltown. Noted Aug. 5.

✚Webster City, Iowa—A. J. Petersen, Audr. of Hamilton County, has awarded the contract for tile to the NATIONAL SEWER PIPE CO., Webster City, at $6576, and for the construction of Nail Drain No. 173 to L. E. NELSON, Ft. Dodge, at 10,228.

✚Duluth, Minn.—The City Council has awarded the contract for the construction of sewers in 37th St. to the PASTORET CONSTRUCTION CO., at $18,124.

✚St. Paul, Minn.—(Official)—The contract for the construction of storm and sanitary sewers in various streets to be included in part of the Snelling-Como sewer system has been awarded to THORNTON BROS., at $263,000. Noted erroneously in the issue of Aug. 5 as having been awarded to Thomson Bros.

Crofton, Neb.—(Official)—Bids will be received until 2 p.m., Sept. 3, by Joseph P. Kuehn, Village Clk., for the construction of a sewer system and septic tanks. J. D. C. Smith, Hartigan, is Engr. Noted Aug. 5.

Kearney, Neb.—The city contemplates the reconstruction and extension of the sewer system.

✚Omaha, Neb.—The contract for the construction of a storm sewer from 45th and Jones St. to Saddle Creek has been awarded to E. T. DONAHUE, at $4461.

✚Mitchell, S. D.—(Official)—The contract for the construction of sewers in various streets has been awarded to R. J. BURNHAM, Mitchell. Noted July 22.

✚Watertown, S. D.—The contract for c.-i. pipe and special castings for the sewage pumping station and 4850 ft. of c.-i. outlet of Class A pipe has been awarded to the AMERICAN CAST IRON PIPE CO., Birmingham, Ala., at $7875. Noted July 29.

Fargo, N. D.—Bids will be received until 10 a.m., Aug. 25, by A. R. Watkins, City Audr., for the construction of lateral sewers in 12th St. and in Sewer District No. 1.

Plattsburg, Mo.—Plans are being prepared by E. B. Murray, Consult. Engr., 920 Walnut St., Kansas City, for the construction of a sewer system and sewage-disposal works. The estimated cost is $21,000.

Heber Springs, Ark.—An election will soon be held to vote on the question of issuing $25,000 in bonds. The proceeds will be used for the construction of a sewer system. Noted Aug. 12.

Walnut Ridge, Ark.—It is reported that plans are being prepared for the construction of a sewer system. The estimated cost is $20,000. W. E. Lane is interested. Noted May 27.

Beeville, Tex.—Bonds for $15,000 have been sold, the proceeds of which will be used for the extending of the sewer system. Noted Aug. 5.

✚Bartlesville, Okla.—The contract for the construction of vitrified tile sewers has been awarded to W. F. POWELL, Chelsea, at $30,170.

✚Steamboat Springs, Colo.—(Official)—The contract for the construction of a sanitary sewer system has been awarded to CONRAD WALKER, North Platte, Neb., at $59,129. Noted Aug. 5.

Dexter, N. M.—The city contemplates the construction of a sewer system.

✚Richfield, Utah—(Official)—The contract for the construction of sewers has been awarded to BROWN & KLEINSCHMIDT, Salt Lake City. The estimated cost is $25,000. Noted Aug. 5.

✚Salt Lake City, Utah—(Official)—The contract for the construction of the main trunk sewer has been awarded to GIBBONS BROS. and REED & ROCHE, Salt Lake City, at $296,509. Other bids were: Thomas J. Shea, $364,300; P. J. Moran, Inc., $340,543; Earl C. Ulen, $338,790; James Kennedy, $335,535; Parrott Bros., $323,148. Noted July 22.

Elko, Nev.—At a recent election the citizens voted to issue $40,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted June 17.

Seattle, Wash.—The Board of Public Works has approved plans for the construction of sewers in North and West 34th and North and West 50th St. The estimated cost is $12,000 and $53,000, respectively. L. B. Youngs is Chn., Bd. Pub. Wks.

Forest Grove, Ore.—(Official)—Plans have been prepared by R. E. Koon, Consult. Engr., Portland, and A. A. Kirkwood, City Engr., and approved by the City Council and State Board of Health for the construction of sewers and a sewage-disposal plant. Binds will be received early in September. The estimated cost is $90,500.

Portland, Ore.—The Council contemplates the construction of sewers in East 28th St. from Tillamook to Knott St. The estimated cost is $12,000.

Los Angeles, Calif.—Adam Dalmation, at $10,975, submitted the lowest bid for the construction of sewers in Fountain Ave. from Western Ave. to Hobart Blvd. and in various other streets.

Dartmouth, N. S.—The town Council will construct sewers and water mains in Eskine St. A. Elliott is Clk.

Ottawa, Ont.—The city will construct sewers in Carruthers and other streets by day labor. The estimated cost is $9769.

Preston, Ont.—The Town Council contemplates the construction of sewers estimated to cost $8200. C. S. McKenzie is Engr.

Simcoe, Ont.—Plans have been prepared for the construction of sewage-disposal beds. W. C. McCall is Town Clk.

Sudbury, Ont.—The Council contemplates extending the sewer system. W. J. Ross is Town Clk.

Thorold, Ont.—Bids will be received until Aug. 25 by D. J. C. Munro, Town Clk., for the construction of a sanitary sewer system and a sewage-pumping station in St. Andrews Ward. Chipman & Powers, Mail Bldg., Toronto, is Engr.

GARBAGE

✚Union, N. J.—(Weehawken post office)—The contract has been awarded to JOHN MULLER, North Bergen, at $25,000 for removing garbage and ashes for a five-year period. Noted July 1 and July 22.

Decatur, Ill.—(Official)—Bids will be received soon by the Alfs Garbage Co. for the construction of an incinerator.

Victoria, Tex.—A garbage incinerator, estimated to cost $7000, will be constructed in Victoria. J. H. Fleming is Mayor. Noted June 17.

STREETS AND ROADS

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 24, by the State Highway Commission for constructing 6900 lin.ft. of road in Marlborough, 5900 lin.ft. of road in Lincoln Township and 11,400 lin.ft. of road in Weymouth Township.

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 24, by the State Highway Commission for constructing 19,000 lin.ft. of state highway in Shrewsbury and Northboro Townships.

✚Boston, Mass.—The contract for constructing 10,900 lin.ft. of road in Northampton has been awarded to the PHILPOTT CONSTRUCTION CO., Melrose, at $18,572. Other bids were: R. F. Hudson, Melrose, $20,017; J. C. McCormick, East Providence, $22,224; A. Williams, Boston, $22,443; Columbia Construction Co., $25,580; D. O'Connell's Sons, Holyoke, $26,393; Lane Contracting Co., Meriden, Conn., $26,963. Noted Aug. 5.

Boston, Mass.—Press reports state that the Board of Public Works has authorized the widening of Armory St., at an estimated cost of $40,000.

Boston, Mass.—Bids will be received until Aug. 23 by the Board of Public Works for paving Prince and Aspen St. and Blue Hill Ave. with asphalt on bitulithic pavement.

✚✚Albany, N. Y.—(Official)—Contracts have been awarded for repaving roads in varous counties as follows:

Repair Contract No. 825, Broome County, 1.76 miles: CHARLES E. HANEY, Camillus, $12,690. Repair Contract No. 820, Chemung County, 2.33 miles: FRANK K. LIBERATORE, Elmira, $12,198. Repair Contract No. 830, Chenango County, 3.55 miles: PADDLEFORD & KING, Sherburne, $14,441. Repair Contract No. 822, Clinton County, 1.99 miles: JAMES CONWAY, Plattsburg, $7806. Repair Contract No. 816, Columbia County, 9.26 miles: OLIN T. BENEDICT, Pittsfield, $15,426. Repair Contract No. 834, Dutchess County, 4.12 miles: HENRY CLINTON, Poughkeepsie, $12,950. Repair Contract No. 827, Putnam and Dutchess Counties, 13.47 miles:

THOMAS H. KARR, Troy, $9939. Repair Contract No. 828, Erie County, 0.87 mile: UNION PAVING CO., Schenectady, $13,502. Repair Contract No. 819, Herkimer County, 5.46 miles: R. D. COOPER, Little Falls, $6715. Repair Contract No. 6?, Monroe County, 0.56 mile: CROUCH BROS., Rochester, $12,377. Repair Contract No. 817, Montgomery County, 10.91 miles: NASH & GRIFFIN, Norwich, $4248. Repair Contract No. 823, Otsego County, 1.88 miles: NEWPORT CONSTRUCTION CO., Herkimer, $19,192.73. Repair Contract No. 818, St. Lawrence County, 5.50 miles: ORLANDO BEEDE, Keene Valley, $26,145. Repair Contract No. 815, St. Lawrence County, 19.32 miles: CLARENCE E. WALKER, Troy, $3344. Repair Contract No. 814, St. Lawrence County, 15.88 miles: CLARENCE E. WALKER, Troy, $2662. Repair Contract No. 824, Schoharie County, 0.104 miles: J. J. MALLOY, Schenectady, $2149. Repair Contract No. 832, Steuben County, 1.14 miles: CHARLES E. HANEY, Camillus, $6314. Repair Contract No. 831, Sullivan County, 2 miles: ARMSTRONG & TROWBRIDGE, Roscoe, $12,984. Repair Contract No. 833, Tompkins County, 17.10 miles: RICHARD HOPKINS, Troy, $7627. Repair Contract No. 835, Warren County, 14.37 miles: DEFIANCE CORPORATION, Ticonderoga, $5046. Repair Contract No. 821, Westchester County, 2.22 miles: TRI-COUNTY CONSTRUCTION CORPORATION, Mt. Vernon, $3980. Repair Contract No. 826, Westchester County, 0.54 miles: TRI-COUNTY CONSTRUCTION CORPORATION, Mt. Vernon, $3454. Noted July 15 and Aug. 12.

Buffalo, N. Y.—The City Council has voted to pave a number of streets.

✚New York, N. Y.—(Borough of Bronx)—(Official)—The contract for improving Victor St. from Van Nest to Rhinelander Ave. has been awarded to THOMAS TENORE, at $7740. Noted July 29 and Aug. 12.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Aug. 11 by L. H. Pounds, Borough Pres., for regulating and repaving with permanent grade No. 1 granite pavement on a 6-in. concrete foundation the roadway of Jamaica Ave. from Broadway to the borough line as follows: W. J. Scanlon Co., $115,151; J. J. B. LaMarsh, $106,469; M. T. Mark, $110,161; Empire Construction Co., $108,930; Rosenthal Engineering Co., $109,034; H. J. Mullen Contracting Co., Fulton St., Jamaica, $105,297; Lawrehoe Contracting Co., $122,164; T. J. Gallagher $120,590; Robertson Construction Co., $114,973. Noted Aug. 5.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until noon, Aug. 24, by Calvin D. Van Name, Borough Pres., for regulating, grading, curbing and laying sidewalks on various streets.

Jersey City, N. J.—Bids will be received by the City Commissioners until 11 a.m., Aug. 26, for repaving a portion of Storms Ave. and Concord St. with Belgian block. M. I. Fagen is City Clk.

Jersey City, N. J.—The Board of Commissioners plans to improve Grove St., with granite block paving laid in concrete. Henry Byrne is Comr.-in-Charge of street improvements.

Newark, N. J.—The Board of Public Works has voted to improve Sussex Ave., by paving with asphalt.

Newark, N. J.—Bids were received Aug. 5 by the Board of Public Works for paving (a) Linsdale Pl. from Washington to Chester Ave., (b) Tyler St. from Chestnut to Malvern St., (c) Oxford St. from Fleming to Passaic Ave., (d) Vesey St. from Pacific to McWhorter St., (e) Yates Ave. from Osborne Terrace 346 lin.ft. easterly, (f) Read St. from Market St. to Passaic Ave., as follows: Northern Construction Co., (a) $6974, (b) $2271, (c) $7107, (d) $6261, (e) $3559, (f) $6499; Continental Public Works Co., (a) $7239; Glenfield Construction Co., (a) $7371, (b) $2276, (c) $7103, (d) $6150, (e) $3845, (f) $6529; Uvalde Asphalt Co., (a) $8665; Jackson Contracting Co., (b) $2289, (c) $7369, (d) $6252; Newark Paving Co., (b) $2329, (c) $7141, (d) $6141, (e) $3525, (f) $6546; Standard Bitulithic Co., (b) $2346, (c) $7233, (d) $6299, (e) $3615, (f) $6631; Ralph Sangiovanni, (c) $6153, (d) $3331; McMahon Construction Co., (f) $6539. Noted July 29

Newark, N. J.—Bids will be received until 11 a.m., Aug. 20, by the Board of Contract and Supply for improving a portion of Excelsior Ave.

New Brunswick, N. J.—Bids will be received until 2:30 p.m., Aug. 30, by the Board of Chosen Freeholders of Middlesex County for improving the New Brunswick-Old Bridge Turnpike from the New Brunswick City line to Commercial Ave. with bituminous concrete on present macadam base. Alvin B. Fox, Perth Amboy, is County Engr.

New Brunswick, N. J.—Bids will be received until 2:30 p.m., Aug. 30, by the Board of Chosen Freeholders of Middlesex County for improving Rahway Ave. from the Roosevelt Woodbridge Rd. to the Blazing Star Rd. with bituminous concrete pavement on a concrete base. Alvin B. Fox, Perth Amboy, is County Engr.

✚Summit, N. J.—The contract for paving Ridgewood Ave. has been awarded to the GARAFANO CONSTRUCTION CO., at $16,000.

West New York, N. J.—The Town Council is considering paving 18th and 21st St. with some type of noiseless pavement.

✚West New York, N. J.—The Town Council has awarded contracts for improving 11th St. to R. T. EMMERSON and Seventh St. to HORNUNG & BLAIR.

✚Allentown, Penn.—The contract for paving Hanover Ave. has been awarded to the BARBER ASPHALT CO.

✚Fullerton, Penn.—The contract for paving Third St. has been awarded to FRANK McINERNEY, Easton.

Greensburg, Penn.—(Official)—Bids will be received until noon, Aug. 30, by the County Controller for constructing and improving sections of the highway in Mt. Pleasant Township. Noted July 22 and Aug. 5.

✚Harrisburg, Penn.—Contracts have been awarded for constructing roads as follows: Stroudsburg Rd. to the FRANKLIN CONSTRUCTION CO., 52 Vanderbilt Ave., New York, $45,624; Muncy Rd. to DWYER & CO., Philadelphia, Penn., $41,877; Milton Rd. to FOGEL & CO., Hollidaysburg, $28,144. Noted July 29.

Philadelphia, Penn.—Bids will be received until noon, Aug. 23, by M. L. Cook, Dir. Pub. Ser., for repairing asphalt pavements.

Scranton, Penn.—The City Council plans to pave Wyoming and Monsey Ave. and to construct sidewalks on Brook St., at an estimated cost of $22,000.

Wilkinsburg, Penn.—(Official)—Bids will be received until 2 p.m., Aug. 21, by Frease & Sperling, Borough Engr., for regrading, recurbing and repaving a number of streets.

Baltimore, Md.—The city plans to repave Hamilton Ave. from Harford Rd. to Franklin Ave.

✚Lake Montibello, Md.—(Baltimore post office)—A contract for paving a number of streets has been awarded to the CONSOLIDATED ENGINEERING CO., Baltimore, at $14,280.

Lovington, Va.—(Official)—Bids will be received until noon, Sept. 1, by the Commissioners of Nelson County for the sale of $35,000 in bonds, the proceeds of which will be used for constructing and improving roads.

Janelew, W. Va.—An election will be held Aug. 23, to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for improving a number of streets.

Philippi, W. Va.—At a recent election the citizens voted in favor of issuing $20,000, part of the proceeds to be used for street paving. Noted July 29.

✚Bakersville, N. C.—The contract for constructing 8½ miles of road in Grassy Creek Township has been awarded to C. B. GEER & CO.

Gastonia, N. C.—At a recent election the citizens voted in favor of issuing $150,000 in bonds, the proceeds of which will be used for constructing roads in Gaston County. Noted June 24.

Newbern, N. C.—Press reports state that the Commissioners of Craven County will improve the Central Highway from Ft. Barnwell to Newbern, about 22 miles.

Greenwood, S. C.—At a recent election the citizens voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for permanent street paving. Noted June 10.

Palatka, Fla.—An election will be held Sept. 14 to vote on the question of issuing $208,000 in bonds, the proceeds of which will be used for constructing brick roads.

Tallahassee, Fla.—Bids will be received until 4 p.m., Sept. 9, by A. H. Williams, City Clk., for improving various streets. Isham Randolph & Co., Heard Bldg., Jacksonvile, is Engr.

Geneva, Ala.—Bids will be received until Aug. 27 by the Commissioners of Geneva County for sand-claying roads, at an estimated cost of $4616.

Grove Hill, Ala.—Bids will be received until Aug. 31 by the Commissioners of Clarke County for constructing sand-clay roads, at an estimated cost of $15,600.

New Orleans, La.—(Official)—Bids will be received until noon, Sept. 7, by the Board of State Engineers, New Orleans Court Bldg., for surfacing about five miles of improved earth highways in Caldwell Parish.

New Orleans, La.—(Official)—Bids will be received until noon, Sept. 8, by the Highway Department of the Board of State Engineers, New Orleans Court Bldg., for constructing 8.1 miles of improved earth highway in Red River Parish.

Livingston, Tenn.—At a recent election, the question of issuing $160,000 in bonds, the proceeds of which was to have been used for road construction was defeated.

Hopkinsville, Ky.—The City Council contemplates paving West Seventh St. with tarvia.

Louisville, Ky.—Bids will be received until Aug. 26 by the Board of Public Works for paving a number of streets.

✚Winchester, Ky.—The contract for improving Lexington Ave. has been awarded to the BICKEL ASPHALT PAVING CO., Louisville, at $32,201. Noted July 29.

✚Antwerp, Ohio—A contract for constructing 20,000 sq.yd. of pavement has been awarded to the MOLLERING CONSTRUCTION CO., Ft. Wayne, Ind., at $38,000.

✚Ashtabula, Ohio—Contracts have been awarded for paving Booth, East, Spencer and Todd St., Starkweather and Grove Ave. to THOMAS P. FITZGERALD.

Bexley, Ohio—Bids will be received until Sept. 4 by Chester A. Miller, Village Clk., for the sale of $63,000 in bonds, the proceeds of which will be used for improving College and Drexel Ave.

✚Cincinnati, Ohio—The contract for paving Morgan St. from Dover St. to Reading Rd., with brick has been awarded to HENKEL & SULLIVAN, at $9378.

Cleveland, Ohio—Bids will be received until noon, Aug. 25, by the Commissioner of Purchases and Supplies for improving and repaving Lorain Ave. from West 73rd to West 98th St. Robert Hoffman is City Engr.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Aug. 20, by Clinton Cowen, State Highway Comr., for improving roads in various counties.

East View, Ohio—(Warrensville post office)—Bids will be received until noon, Aug. 30, by Charles E. Burger, City Clk., for improving and constructing sidewalks on Helen St. from Kinsman Rd. to the village limits. Noted July 29.

✚Findlay, Ohio—The contract for paving East Hardin St has been awarded to C. B. HALL & SON, at $6046.

Gates Mills, Ohio—Bids will be received until noon, Sept. 11, by F. J. Wilson, Clk. of Mayfield Township, for the sale of $22,000 in bonds, the proceeds of which will be used for improving Mayfield and Som Center Roads in Mayfield Township.

✚Mt. Gilead, Ohio—(Official)—The contract for improving and macadamizing the Sexon-Thatcher Rd. in Gilead and Canaan Township Rd. has been awarded to the FOREST CONSTRUCTION CO., Ada., at $14,544. Noted July 15.

New Hampshire, Ohio—An election will be held Aug. 23 to vote on the question of issuing $11,000 in bonds, the proceeds of which will be used for paving portions of various streets.

Niles, Ohio—(Official)—Bids will be received until 1 p.m., Aug. 18, by the Commissioners of Road District No. 2 for improving Watson Rd.

Port Clinton, Ohio—Bids will be received until noon, Aug. 30, by W. H. Williamsen, Village Clk., for improving Depot St.

Silverton, Ohio—Bids will be received until noon, Aug. 28, by A. A. Sprague, Village Clk., for constructing concrete sidewalks on various streets.

Toledo, Ohio—Bids will be received until 10 a.m., Aug. 23, by the Commissioners of Lucas County, for improving Lake St. in Washington Township.

Woodsfield, Ohio—(Official)—Bids will be received until noon, Aug. 28, by the Village Council for paving South Main St. with hard burned vitrified brick. George P. Dorr is Clk. of the Council.

Xenia, Ohio—(Official)—Bids will be received until noon, Aug. 31, by C. W. Whitmer, Dir. Pub. Ser., for paving a portion of Third St.

Youngstown, Ohio—Bids will be received until noon, Aug. 23, by the Director of Public Service for grading Hylda St. from Hillman St. to the Youngstown & Southern Ry. H. C. Fox is City Clk.

Columbus, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 14, by the Commissioners of Bartholomew and Shelby Counties for constructing a road on the county line.

Indianapolis, Ind.—(Official)—Bids will be received until 10 a.m., Sept. 3, by the Board of Public Works for improving a number of streets.

Mt. Clemens, Mich.—All bids received July 19 for paving Grand Ave. from Washington to Elredge St. were rejected. Noted July 15.

Carlinville, Ill.—Press reports state that the Board of Local Improvements has voted to pave First North St., at an estimated cost of $20,591.

Elgin, Ill.—Bids will be received until Aug. 26 by the Board of Local Improvements for constructing 18,763 lin.ft. of concrete combined curb and gutter. M. H. Brightman is Secy. of the Bd.

St. Charles, Ill.—(Official) — Bids will be received until Sept. 1, for improving various streets. John W. Wilson, Haine Blk., St. Charles, is Engr.

Springfield, Ill.—(Official)—Bids will be received until 11 a.m., Aug. 18, by the State Highway Commission for constructing a brick road near Dwight in Livingston County. The estimated cost of construction is $17,974.

Grand Rapids, Wis.—Bids will be received until 2 p.m., Aug. 27, by the Board of Public Works for paving Grand Ave. E. L. Brown is City Clk.

✚Janesville, Wis.—(Official)—The contract for paving Wisconsin, South Bluff St. and Milton Ave. has been awarded to GUND GRAHAM CO., Freeport, Ill. Noted July 15.

✚Racine, Wis.—(Official)—The contract for paving West Blvd. from Washington to Kinzie Ave. has been awarded to the WESTERN IMPROVEMENT CO., Racine, Wis., at $13,657. Noted July 22.

Creston, Iowa—(Official)—Bids will be received until 8 p.m., Aug. 23, by Carl Davenport, City Clk., for improving a number of streets. Theodore S. Delay is City Engr.

✚Mt. Gregor, Iowa—The contract for paving Main St. from Front to Center St. has been awarded to JAMES F. LEI, Dubuque.

✚Duluth, Minn.—The contract for paving Colorado St. has been awarded to J. JOHNSON, at $9750.

Ellsworth, Kan.—See item under "Bridges."

Herington, Kan.—According to press reports, bids will soon be received for laying 6000 sq.yd. of brick and asphaltic concrete pavement. C. N. Hull is City Clk.

Mulberry, Kan.—Bids will soon be received by J. Pedroja, City Clk., for paving Military St.

✚College View, Neb.—The contract for paving in Districts Nos. 1 and 2 has been awarded to ABEL & ROBERTS, First National Bank Bldg., Lincoln, at $90,000.

Missoula, Mont.—(Official)—Bids will be received until 10 a.m., Aug. 25, by L. E. Harris, City Clk., for improving Pine St. E. S. Hathaway is City Engr.

✚Fornfelt, Mo.—A contract for laying 28,000 sq.yd. of pavement has been awarded to the CENTURY CONSTRUCTION CO., Chicago, Ill., at $33,400.

✚Kansas City, Mo.—The contract for paving Brush Creek Blvd. from Main to Oak St. has been awarded to J. C. LYLE, 609 Grand Ave., at $10,234.

✚Kansas City, Mo.—The contract for improving Benton Blvd. from 45th St. to Brush Creek Blvd. has been awarded to J. O. WEST.

Kansas City, Mo.—The Park Board plans to improve the Swope Park Blvd. from 49th to 63rd St.

Rockport, Mo.—Press reports state that the citizens contemplate holding a special election for the purpose of voting on the question of issuing $250,000 in bonds, the proceeds of which will be used for constructing rock roads.

St. Louis, Mo.—(Official)—Bids will be received until noon, Aug. 27, by the city for improving a number of streets.

Sedalia, Mo.—Bids will be received until Aug. 24, for resurfacing approximately 2½ miles of rock road in Sedalia Special Road District. W. H. Powell is Secy.

✚Springfield, Mo.—A contract for resurfacing two miles on the South Campbell St. road with asphaltic macadam has been awarded to the PLUMMER-ADAMS CONSTRUCTION CO., at approximately $15,000.

✚McKinney, Tex.—A contract for street paving has been awarded to LEVY & LEVY, Dallas, Tex., at $58,605.

✚Seguin, Tex.—The contract for constructing seven miles of the Zorn-Redweed Rd. has been awarded to W. K. DAVIS, San Antonio, at $15,000.

Weatherford, Tex.—At a recent election the question of issuing $60,000 in bonds, part of the proceeds of which was to have been used for constructing roads was defeated. Noted July 1.

Colbert, Okla.—Press reports state that a special election will be held for the purpose of voting on the question of issuing bonds, the proceeds of which will be used for constructing roads.

✚Silver City, N. M.—Press reports state that a contract for constructing concrete pavements has been awarded to LEVY-DEN ORTSEIFEN, Chicago, Ill., at $22,408. Other bids were: Jennings & Wood, El Paso, $22,740; V. E. Wave, El Paso, $23,344.

Salt Lake City, Utah—(Official)—Bids will be received until 10 a.m., Aug. 24, by the Board of Commissioners for paving Ninth South St. from 13th East St. to Fairview Ave., 13th East St. from Ninth South St. to Yale Ave., Fairview Ave. from Ninth South St. to Michigan Ave. and Michigan Ave. from 15th East St. to Fairview Ave.

Wendover, Utah—Bids will be received until Aug. 23 by the State Road Commission for constructing about 23 miles of highway from Wendover to Knolls.

Kingman, Ariz.—At a recent election the citizens of Mohave County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for constructing and improving roads. Noted July 8.

Everett, Wash.—Bids will be received until 2 p.m., Aug. 23, by M. Weatherbee, Audr. of Snohomish County, for constructing Permanent Highways No. 19 and 20. Noted July 29.

La Conner, Wash.—Bids will be received until Sept. 1 by the Town Council for constructing concrete pavement on First St. from Commercial to Morris St.

Olympia, Wash.—Bids will be received until Aug. 30, by William R. Roy, State Highway Comr., for improving the Inland Empire Highway from Union Flat Creek south in Whitman County.

✚Seattle, Wash.—(Official)—The contract for paving Permanent Highway No. 5A has been awarded to the WASHINGTON PAVING CO., Tacoma, at $76,549.

Seattle, Wash.—The City Council has decided to postpone the improvement of Railroad Ave. until early next year.

Walla Walla, Wash.—H. L. Wilson & Co., Walla Walla, at $11,566 was the lowest bidder for paving First Ave.

✚McMinnville, Ore.—The contract for improving 5½ miles of the Sourgrass Cut-Off Rd. has been awarded to the TILLAMOOK BAY CONSTRUCTION CO., Bay City, at $18,863.

Martinez, Calif.—The Board of Supervisors of Contra Costa County will soon receive bids for the construction of 3 miles of highway out of Martinez, at an estimated cost of $38,667. E. E. Arnold is County Surv.

✚Oroville, Calif.—The City Trustees have awarded a contract for street work to the CLARK-HENERY CO., Sacramento, at $15,700.

✚Pescadero, Calif.—The contract for constructing a highway from Pescadero to the Santa Cruz County line has been awarded to L. G. HARE, at $29,234.

✚San Jose, Calif.—The Board of Supervisors of Santa Clara County has awarded contracts for improving White, Tully and San Felipe Roads to the RANSOME CRUMMEY CO., Oakland, at $31,854; Ford Rd., Phelan and Fontasso Ave. to J. W. McDONALD, Jr., San Jose, at $14,887.

Santa Cruz, Calif.—The City Trustees will soon receive bids for paving Bay St., from Continental to King St., at an estimated cost of $20,000.

Belleville, Ont.—The City Council plans to pave various streets with granolithic. J. W. Evans is City Engr.

✚Niagara Falls, Ont.—The contract for paving Queen St. with vitrified brick has been awarded to C. H. KUNMEYER, Niagara Falls, at $9244. Noted June 10.

✚Niagara Falls, Ont.—The contract for paving Robert St. with reinforced concrete has been awarded to P. A. LORENZO at $4215.

INDUSTRIAL WORKS

Lawrence, Mass.—The Lenox Motor Car Co., 18 Columbus Ave., Boston, Mass., will build a reinforced-concrete factory to cost $100,000. Gilman & Ames, 8 Congress St., Boston, Mass., is Arch.

Somerville, Mass.—The American Tube Co. will build a one-story, 178x248-ft., brick addition to its plant at 140 Somerville St., to cost $58,000.

Springfield, Mass.—The Dickinson Realty Trust, 131-137 Main St., will build a brick garage to cost $25,000.

Springfield, Mass.—The Bausch Machine Tool Co. will build a 41x50-ft. addition to its plant to cost about $44,000.

Winthrop, Mass.—The contract will soon be awarded by C. A. & F. N. Russell, Arch., 50½ Warren St., Boston, Mass., for the construction of a one-story, 72x132-ft. garage for J. W. Silver, 18 Tremont St., Boston, Mass. The estimated cost is $25,000.

Pawtucket, R. I.—Bids are being received for the construction of a three-story, 70x100-ft. brick mill for the Philips Insulated Wire Co., Central Ave. Jenks & Ballou, Grosvenor Bldg., Providence, R. I., is Arch.

✚Pawtucket, R. I.—The BENJAMIN F. SMITH CONSTRUCTION CO. has been awarded the contract for the construction of a four-story, 27x160-ft. factory with a one-story, 60x67-ft. extension for the Acme Finishing Co. The estimated cost is $18,000.

✚Providence, R. I.—The Metal Products Corp., Thurbur Ave., has awarded the contract for the construction of a one-story, 60x212-ft. and a two-story, 45x60-ft. addition to WILLIAM H. HAMLYN & SON, 78 Mawny St.

Providence, R. I.—The Terminal Warehouse Co. will build a five-story, 100x250-ft. warehouse by day labor. The estimated cost is $100,000. William M. Harris, 546 Atwells Ave., is Pres. Warren & Gerrish, 53 State St., Boston, Mass., is Arch. Noted June 10.

✚Hartford, Conn.—The Hartford Rubber Works, Park St., has awarded the contract for the construction of a two-story, 75x140-ft. warehouse to the J. H. CROZIER CO., 721 Main St. Lockwood, Green & Co., 60 Federal St., Boston, Mass., is Engr.

✚Hartford, Conn.—THOMAS MALCOMBE, 118 Asylum St., has been awarded the contract for the construction of a

three-story, 42x110-ft. factory for the Jacobs Mfg. Co. Greenwood & Noer, 847 Main St., is Engr. Noted June 3 and 10.

Hartford, Conn.—William Beck, 107 Albany Ave., will build a two-story, 62x88-ft. garage to cost about $20,000. Fred C. Walz, 118 Asylum St., is Arch.

Hartford, Conn.—Bids are being received by Charles Harris, 1026 Main St., for the construction of a two-story, 58x90-ft. garage to cost $20,000. Burton A. Sellew, 756 Main St., is Arch.

✚**Torrington, Conn.**—The Turner & Seymour Co. has awarded the contract for the construction of a 30x170-ft. brick and concrete addition to its plant to the TORRINGTON BUILDING CO.

✚**Albany, N. Y.**—Fuller & Robinson, Arch., 95 State St., has awarded the contract for the construction of a three-story, 72x75-ft. addition to the garage of the Albany Garage Co., Howard and Lodge St., to the W. S. HAMMILL CO., Carl Bldg., Troy, N. Y. The estimated cost is $60,000. Noted June 24.

✚**Buffalo, N. Y.**—(Official)—The TURNER CONSTRUCTION CO., Prudential Bldg., has been awarded the contract for the construction of a ten-story, 105x141-ft. reinforced-concrete cold-storage warehouse at Perry and Columbia St. for the Buffalo Cold-Storage Co. D. E. Knowlton is Pres. Noted June 14.

Buffalo, N. Y.—The Buffalo Copper & Brass Rolling Mills has obtained permits for the construction of two one-story additions to its plant at 44 Sayre St., to cost $160,000.

Elmira, N. Y.—Bids will soon be received by Pierce & Bickford, Arch., 118 Lake St., for the construction of a five-story, 53x70-ft., reinforced-concrete warehouse for Barker, Rose & Clinton. A. Clinton, 109 Lake St., is in charge.

Fulton, N. Y.—The Hunter Arms Co. contemplates the construction of two factories to cost about $30,000. Thomas Hunter is in charge.

New York, N. Y.—(Borough of Bronx)—The Coryell Bldg. Co., Inc., 1414 Vyse Ave., will build a one-story, 75x170-ft. brick garage on 176th St., to cost $12,000. Carl Demmerle, 1510 Bryant Ave., is Arch.

New York, N. Y.—(Borough of Brooklyn)—Bids will soon be received by Thode & Harvie, Arch., 406 Ninth St., for the construction of a two-story, 50x164-ft. brick laundry on Prospect Ave. for the Anchor Laundry Co., 361 Seventh Ave. The estimated cost is $60,000. F. L. Roth is Pres.

✚**New York, N. Y.**—(Borough of Brooklyn)—FRANK M. WALSH, 374 Hamilton Ave., has been awarded the contract for the construction of a two-story, 90x99-ft. garage at 1203-1209 Atlantic Ave., for Charles Cooper, 157 Remsen St. The estimated cost is $19,000. J. Sarsfield Kennedy, 157 Remsen St., is Arch.

✚**New York, N. Y.**—(Borough of Brooklyn)—McAvoy & Smith, 858 71st St., has awarded the contract for the construction of a one-story, 50x100-ft. garage at Bedford Ave. and Robinson St. to MEYER & SWEENY, 607 Flatbush Ave. Slee & Bryson, 154 Montague St., is Arch. The estimated cost is $10,000.

New York, N. Y.—(Borough of Brooklyn)—William O. Ostheimer, 11th St. and Fifth Ave., will build a three-story, 50x95-ft. brick garage on 11th St., to cost about $15,000. S. L. Behen, 161 Ninth Ave., is Arch.

New York, N. Y.—(Borough of Manhattan)—James J. Riordan, 1 East 14th St., will build a three-story, 93x225-ft. printing building at 438-454 West 18th St. James S. Maher, 431 West 14th St., is Arch.

✚**New York, N. Y.**—(Borough of Manhattan)—The Monmouth Garage Co., 126 East 54th St., has awarded the contract for the construction of a five-story, 50x100-ft., concrete garage at 226-228 East 54th St. to FRED T. LEY & CO., INC., 52 Vanderbilt Ave. The estimated cost is $100,000. Ballinger & Perrot, 1211 Arch St., Philadelphia, Penn., is Arch.

New York, N. Y.—(Borough of Manhattan)—The contract will soon be awarded by M. W. Del Gaudio, 1910 Webster Ave. (Borough of Bronx), for the construction of a three-story, 50x96-ft. brick factory on 106th St. for Imperato & Camera, 2107 First Ave. The estimated cost is $15,000.

✚**New York, N. Y.**—(Borough of Manhattan)—William Koenig, 122d St. and St. Nicholas Ave., has awarded the contract for alterations to his garage to JOHN M. MACADAM & CO., 29 West 34th St. The estimated cost is $16,000. L. P. Santangela, 2364 Eighth Ave., is Arch.

✚**New York, N. Y.**—(Borough of Manhattan)—JOHN COLLINS, 418 West 42d St., has been awarded the contract for rebuilding the factory of the Tegetmeier & Riepe Co., 781 First Ave. J. M. Baker, 9 Jackson Ave. (Borough of Queens), is Arch. The estimated cost is $20,000. Noted Apr. 8.

Seneca Falls, N. Y.—Bids will be received about Sept. 1 by Willard Case & Co., 17 Battery Pl., New York, N. Y., for the construction of a $100,000 plant for the Seneca Falls Mfg. Co.

✚**Syracuse, N. Y.**—The New Process Gear Co., 500 Plum St., has awarded the contract for the construction of a four-story, 55x160-ft. addition to its factory to the R. H. HOWES CONSTRUCTION CO., 105 West 40th St., New York, N. Y. The estimated cost is $50,000. Day & Zimmerman, 611 Chestnut St., Philadelphia, Penn., is Arch.

Utica, N. Y.—The Oneita Knitting Mills will build a $25,000 addition to its plant. N. T. Devereux is Pres.

✚**Ampere, N. J.**—The contract for the construction of a 60x200-ft. reinforced-concrete factory for the Crocker-Wheeler Co. has been awarded to the AMERICAN CONCRETE STEEL CO., Newark, N. J.

✚**Bloomfield, N. J.**—The AMERICAN CONCRETE STEEL CO., Newark, N. J., has been awarded the contract for the construction of a 400x500 ft., concrete factory for the International Arms Co. Noted July 22.

✚**Butler, N. J.**—JOHN PROVOST has been awarded the contract for the construction of a three-story, 47x142-ft. reinforced-concrete addition to the factory of the Pequanoc Rubber Co. The estimated cost is $28,000. M. Howman, 6 Park Ave., Paterson, N. J., is Arch. Noted July 1 and Aug. 5.

Garwood, N. J.—The Powers & Robinson Foundry & Machine Co. plans the construction of a 50x200-ft., reinforced-concrete factory.

Hackensack, N. J.—The American & British Mfg. Co., Bridgeport, Conn., has purchased a 26-acre site and plans the construction of a plant.

✚**Harrison, N. Y.**—The DAVID HENRY BUILDING CO., 207 Market St., Newark, N. J., has been awarded the contract for the construction of a two-story, 100x100-ft. warehouse for the H. J. Heinz Co., 256 West St., New York, N. Y.

✚**Jersey City, N. J.**—The contract for the construction of a two-story, 54x234-ft. and a one-story, 60x104-ft. printing plant on Maple Ave. for the Jersey City Printing Co., 37 Montgomery St., has been awarded to the JOHN W. FERGUSON CO., 152 Market St., Paterson, N. J.

✚**Kingsland, N. J.**—The Canadian Car & Foundry Co., 120 Broadway, New York, N. Y., has awarded the contract for the construction of two storehouses to SHIRE & WOODS, Lyndhurst, N. J.

Newark, N. J.—The Celluloid Co. will build a two-story reinforced-concrete and brick building at 70 Westcott St. Estimated cost, $15,500.

Newark, N. J.—The Butterworth-Judson Co. will build a one-story, 40x300-ft. factory on Ave. R, to cost approximately $15,000.

✚**Newark, N. J.**—M. Basch, Basch & Greenfield Co., 67 Seventh Ave., has awarded the contract for the construction of a three-story, 43x99-ft. brick factory at 15-17 Stone St. to ANDREW GRANO, 57 New St. The estimated cost is $15,000. Hyman Rosensohn, 800 Broad St., is Arch.

✚**Newark, N. J.**—THE FACTORY CONSTRUCTION CO., 70 Westcott St., has been awarded the contract for the construction of a two-story, 47x100-ft. factory for the Celluloid Co., 290 Ferry St. The estimated cost is $15,500.

✚**New Brunswick, N. J.**—The JOHN W. COWPER CO., Fidelity Bldg., Buffalo, N. Y., has been awarded the contract for the construction of a two-story, 70x100-ft. addition to the factory of the Simplex Automobile Co. The estimated cost is $20,000.

Plainfield, N. J.—(Official)—The contract will soon be awarded by John G. Brown, Arch., Witherspoon Bldg., Philadelphia, Penn., for the construction of a two-story, 120x120-ft. brick and concrete addition to the plant of the Sauer Motor Co. The estimated cost is $30,000. Noted May 6 and 20 and Aug. 12.

Union Hill, N. J.—(Weehawken post office)—Bids are being received by Philip H. Dilmer, Arch., 128 Humboldt St., for the construction of a two-story, 53x97-ft. brick dairy on Fulton St. for William Jordan. The estimated cost is $15,000.

Berwick, Penn.—The American Car & Foundry Co. plans the construction of an 80x480-ft., brick addition to its plant to cost $90,000.

✚**Croyden, Penn.**—(Bridgewater post office)—(Official)—The contract for the construction of a one-story, 40x250-ft. dairy for Joseph R. Grundy, Bristol, Penn., has been awarded to C. Z. STRODLING, Oxford Valley, Penn. Heacock & Hokanson, 1218 Chestnut St., Philadelphia, Penn., is Arch. Noted July 1.

Haverford, Penn.—Bids are being received by H. Brooks Price, Arch., 105 West 40th St., New York, N. Y., for the construction of a two-story, 34x89-ft. garage for Archibald G. Thomson, New Stock Exchange Bldg., Philadelphia, Penn. The estimated cost is $25,000.

✚**Philadelphia, Penn.**—Frank F. Leflan has awarded the contract for the construction of a one-story, 55x244-ft. garage to HARRY BROCKLEHURST, 512 Norris St. The estimated cost is $13,000.

Philadelphia, Penn.—Bids are being received by John Scott & Co., American and Diamond St., for the construction of a four-story, 50x122-ft. addition to its warehouse to cost $50,000. M. Ward Easby, 1420 Chestnut St., is Arch. Noted Aug. 12.

Zellenople, Penn.—H. C. Ellholtz contemplates the construction of a two-story, 58x100-ft. commercial garage to cost $12,000.

✚**Wilmington, Del.**—Philip Johnson has awarded the contract for the construction of additions and alterations to his warehouse to CHARLES J. DOUGHERTY. Roscoe C. Tindall, Equitable Bldg., is Arch.

Wilmington, Del.—The contract will soon be awarded by Brown & Whiteside, Arch., Du Pont Bldg., for the construction of a one-story, 32x240-ft. warehouse for the Electric Hose & Rubber Co. The estimated cost is $15,000.

Baltimore, Md.—C. Warner Storck, Charles and Franklin St., plans the construction of a two-story warehouse, to cost $25,000. E. H. Glidden, Garrett Bldg., is Arch.

✚**Baltimore, Md.**—John F. Hancock & Son, 4 South Howard St., has awarded the contract for the construction of a three-story, 22x60-ft. addition to its warehouse to CHARLES H. BROOKS, 923 North Carey St. The estimated cost is $10,000.

Baltimore, Md.—Bids are being received by E. E. Ottenheimer, 327 Law Bldg., for the construction of a one-story, 30x65-ft. garage. The estimated cost is $10,000. F. E. Beall, 306 St. Paul St., is Arch.

Baltimore, Md.—The Baltimore Lumber Co., Baltimore, Md., will build a four-story warehouse on Watson St. George R. Callis, Jr., is Arch.

✚**Baltimore, Md.**—The contract for the construction of a 334x176-ft. factory on Hull St. for G. Ober & Sons has been awarded to the SANFORD & BROOKS CO., at $55,000.

✚**Washington, D. C.**—IRWIN & LEIGHTON, 12th and Cherry St., Philadelphia, Penn., has been awarded the contract for the construction of a six-story, 100x300-ft. service building for the Ford Motor Co., Detroit, Mich. The estimated cost is $600,000. Kohn & Wilby, 58 La Fayette Ave., Detroit, Mich., is Arch.

✚**Washington, D. C.**—Peter M. Dorsch, 1811 Seventh St., N. W., has awarded the contract for the construction of a two-story, 48x60-ft. bakery to A. M. POYNTON, 715 14th St.,

N. W. The estimated cost is $15,000. Simmons & Cooper, Corcoran Bldg., is Arch.

Richmond, Va.—Bids are being received by Baldwin & Brown, 1557 East Main St., for the construction of a six-story warehouse to cost $30,000. Carmeal & Johnson, Chamber of Commerce Bldg., is Arch. Noted Aug. 5.

Columbia, S. C.—The Carolina Veneer Co., Biltmore, N. C., will build a factory. Joseph E. Kocka is Pres. Estimated cost, $50,000.

Dothan, Ala.—The Farmers' Union Warehouse Co. will build a warehouse, to cost $75,000.

Dothan, Ala.—The Central Warehouse & Gin Co., recently incorporated, will build a warehouse. Estimated cost, $75,000.

Fayetteville, Tenn.—The Elk Cotton Mills will build a mill. The estimated cost is $90,000. J. E. Sirrine, Greenville, S. C., is Arch. and Engr.

Johnson City, Tenn.—The Clinchfield Products Co. plans the construction of a $500,000 plant.

Canton, Ohio—The United Steel Co. plans the construction of a $2,000,000 plant.

Cleveland, Ohio—The Commercial Flour & Milling Co., 1253 Superior Viaduct, will build a five-story, brick warehouse on Scranton Rd. William J. Mahnke is Pres. Estimated cost, $25,000.

Cleveland, Ohio—Bids will be received until Oct. 1 by the W. W. Hodges Co., Arch., 1216 Schofield Bldg., for the construction of a one-story, 100x132-ft. factory for the J. D. Ryan Co., 211 High Ave. The estimated cost is $15,000.

✚**Cleveland, Ohio**—The contract for the construction of a four-story factory at 4223 Hamilton Ave., for the Elwell-Parker Electric Co., has been awarded to the MASTER-MULLEN CONSTRUCTION CO., 454 Rose Bldg. George S. Rider & Co., 512 Century Bldg., is Arch. Estimated cost, $50,000.

Cleveland, Ohio—The City Auto & Supply Co., 2352 Euclid Ave., will build a two-story garage and service station at East 23d and Chester St. Estimated cost, $25,000.

Cleveland, Ohio—The Vlchek Tool Co. will build an addition to its plant at 10,709 Quincy Ave., to cost $18,000.

✚**Cleveland, Ohio**—The Chandler Motor Car Co., East 31st St. and St. Clair Ave., has awarded the contract for the construction of a plant to the BOYNTON-PRATT CO., 802 Columbia Bldg. Ernest McGeorge, 853 Leader-News Bldg., is Arch. Noted July 22.

✚**Cleveland, Ohio**—W. I. THOMPSON & SON, 6110 Euclid Ave., has been awarded the contract for the construction of a four-story, 100x120-ft. factory for the Russ Co., 5700 Walworth Ave. W. W. Hodges, 1216 Schofield Bldg., is Arch.

✚**Cleveland, Ohio**—The Harshaw, Fuller & Goodwin Co., 712 Electric Bldg., has awarded the contract for the construction of a two-story, 60x109-ft. addition to its factory to SAMUEL AUSTIN & SON CO., 14,230 Euclid Ave. The estimated cost is $30,000.

Indianapolis, Ind.—S. Ringold will build a garage at Capitol and Vermont St., to cost $12,600.

Battle Creek, Mich.—H. L. Kneeland plans the construction of a $100,000 garage.

Detroit, Mich.—The Hyatt Roller Bearing Co. will build a three-story, reinforced-concrete warehouse to cost $30,000.

Hastings, Mich.—The contract will soon be awarded for the construction of a 150x300-ft. machine shop for the Consolidated Press Co. Frank D. Chase, Peoples Gas Bldg., Chicago, Ill., is Arch.

✚**Alton, Ill.**—The Western Cartridge Co. has awarded the contract for the construction of a two-story factory to the WIMMER CONSTRUCTION CO., Victoria Bldg., St. Louis, Mo. Theodore Masel is Arch.

Chicago, Ill.—Bids will be received about Sept. 1 by Price & McLanahan, Arch., Bellevue Court Bldg., Philadelphia, Penn., for the construction of a five-story, 500x800-ft. freight storage building for the Pennsylvania R.R. Co., Pittsburgh, Penn. The estimated cost is $2,000,000.

Chicago, Ill.—Bids are being received by Paul Gerhardt, 64 West Randolph St., Arch., for the construction of a six-story, 200x300-ft. warehouse for the Wheeling Corrugating Co. The estimated cost is $200,000.

✚**Chicago, Ill.**—The Michigan Central Ry., La Salle St. Station, has awarded the contract for the construction of a one-story freight house to the LEYDEN, ORTSEIFEN CO., 53 West Jackson Blvd. The estimated cost is $12,000. A. T. Hawk, 139 West Van Buren St., is Arch.

Chicago, Ill.—Revised bids are being received by A. S. Alschuler, 28 East Jackson Blvd., Arch., for the construction of a six-story, 108x120-ft. printing plant for the Regensteiner Colortype Co., 1201 West Jackson Blvd.

Chicago, Ill.—The contract will soon be awarded for the construction of a three-story, 41x116-ft. factory for the Republic Box Co., 913-31 North Halsted St. Holabird & Roche, 104 South Michigan Ave., is Arch.

✚**Chicago, Ill.**—(Official)—The Chicago Title & Trust Co., 69 West Washington St., has awarded the contract to the O. W. ROSENTHAL CO., 80 East Jackson Blvd., for the construction of a seven-story reinforced-concrete warehouse at 411 West Orange St. The estimated cost is $150,000. Paul Gerhardt, 64 West Randolph St., is Arch. Noted Aug. 5.

✚**Madison, Wis.**—The Union Transfer & Storage Co. has awarded the contract for construction of a six-story warehouse, office and plant, costing about $120,000, to N. E. BREDE, Chicago, Ill. Noted Apr. 29.

Milwaukee, Wis.—The Linde Air Products, 42d St. Bldg., New York, N. Y., plans the construction of a one-story, 150x250-ft. factory at 38th and National St. The estimated cost is $50,000.

Milwaukee, Wis.—Bids will soon be received by Kirchhoff & Rose, Arch., 1312 Majestic Bldg., for the construction of a six-story, 70x150-ft., brick and concrete addition to the plant of the Phœnix Knitting Co., 208 Broadway. The estimated cost is $100,000.

Minneapolis, Minn.—The Lansing Co. will build a five-story warehouse at 519-21 Third St., to cost $40,000.

St. Paul, Minn.—The Equity Coöperative Grain Exchange plans the construction of a reinforced-concrete grain elevator to cost $150,000.

Garden City, Kan.—The Alfalfa Milling Co. will expend $175,000 to increase the capacity of its plant.

St. Louis, Mo.—The Pulitzer Publishing Co., 212 North Broadway, contemplates the construction of a five-story publishing house, to cost $200,000. Barnett, Haynes & Barnett, Century Bldg., is Arch.

St. Louis, Mo.—Bids are being received by J. M. Dunham & Co., Arch., Dunham Bldg., for the construction of a two-story warehouse for the Hafner Mfg. Co., Main and Dock St. The estimated cost is $25,000.

✚**St. Louis, Mo.**—The Pavely Dairy Co., 3301 Park Ave., has awarded the contract for the construction of a $50,000 dairy plant to the GILSONITE CONSTRUCTION CO., Wainwright Bldg. Leonhard Haeger, 3844 Utah Pl., is Arch. Note June 17.

Troy, Mo.—The Racket Store Co. will build a two-story ice-storage building to cost $20,000. J. M. Dunham & Co., Chemical Bldg., St. Louis, Mo., is Arch.

Orange, Tex.—The plant of the Lutcher & Moore Lumber Co., which was recently destroyed by fire at a loss of $150,000, will be rebuilt.

Post, Tex.—Plans are being made to increase the capacity of the Post Cotton Mills Co. by enlarging the plant to four times its present size. The estimated cost is $1,500,000.

San Benito, Tex.—Plans are being prepared for the construction of a two-story, brick refrigeration plant for the Rio Grande Valley Ice Co. The estimated cost is $25,000.

Oklahoma City, Okla.—The contract will be awarded about Sept. 1 for the construction of an assembling plant for the Ford Motor Co., Detroit, Mich. Albert Kahn, 58 La Fayette Ave., Detroit, Mich., is Arch. J. A. Deignan is Local Mgr. Noted July 29.

Denver, Colo.—The contract will soon be awarded for the construction of a four-story, 65x65-ft. warehouse for the Turner Co. S. H. Dunford, 10 South La Salle St., Chicago, Ill., is Arch.

Gold Hill, Ore.—The Beaver Portland Cement Co. will soon start work on the construction of a $600,000 plant. J. C. Burch, Portland, Ore., is Mgr.

Giant, Calif.—The Atlas Powder Co. plans to expend $500,000 in remodeling and enlarging its plant. W. J. Webster is Pres.

✚**Ingersoll, Ont.**—JOHN HAYMAN & SONS, LTD., London, Ont., has been awarded the contract for the construction of a $50,000 factory for the Borden Mills Co.

Regina, Sask.—Bids are being received by the Robert Simpson Co., Queen and Yonge St., Toronto, Ont., for the construction of a brick and reinforced-concrete warehouse, to cost $150,000. Noted Aug. 12.

FEDERAL GOVERNMENT WORK

Post Office—Gardiner, Maine—Bids were received Aug. 12 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Gardiner (a) limestone, (b) standstone, as follows: Potters Lumber Co., East Liverpool, Ohio (a) $66,899; E. T. Abbot Construction Co., New York, N. Y., (a) $58,920, (b) $61,200; Otto Nelson Co., Bangor, (a) $61,554, (b) $63,292; William H. Fissell & Co., New York, N. Y., (a) $55,000, (b) $60,000; Conners Bros. Co., New York, N. Y., (a) $64,450, (b) $66,956; C. M. Leach, Boston, Mass., (a) $68,873, (b) $75,759; James Devault, Canton, Ohio, (a) $63,431, (b) $66,900; George W. Lane & Co., Lewiston, (a) $69,874; Thomas W. Cissel & Co., Wooster, Ohio, (a) $60,000, (b) $63,000; Westchester Engineering Co., White Plains, N. Y., (a) $60,000, (b) $65,000, and T. F. Moreau, Lewiston, (a) $59,894, (b) $61,674. Noted July 8.

Miscellaneous Supplies—Boston, Mass.—Bids will be received until 10 a.m., Aug. 24, by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing miscellaneous supplies at the navy yard, Boston.

Post Office—North Attleboro, Mass.—Bids were received Aug. 12 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at North Attleboro, Mass., as follows: N. J. Magnan & Co., North Attleboro, (1) $54,428, (2) $54,728, (3) $55,128, (4) $55,448; C. M. Leach, Boston, (1) $52,873, (2) $53,983, (3) $54,000, (4) $55,200; E. T. Abbot Construction Co., New York, N. Y., (1) $51,900, (2) $52,700, (3) $52,600, (4) $53,300; George Howard & Sons Co., Brockton, (1) $51,000, (2) $51,400, (3) $52,000, (4) $52,400; W. H. Fissell & Co., New York, N. Y., (1) $47,990, (2) $48,890, (3) $48,359, (4) $49,337; Torbert Construction Co., Hampton, Va., (1) $50,249, (2) $50,749, (3) $51,119, (4) $51,619; R. G. Monroe & Co., North Attleboro, (1) $53,191, (2) $53,491, (3) $54,231, (4) $54,531; Potters Lumber Co., East Liverpool, Ohio, (1) $55,000, (2) $55,800, (3) $55,300, (4) $56,100; Westchester Engineering Co., White Plains, N. Y., (1) $50,700, (2) $52,500, (3) $52,000, (4) $54,000; Conners Bros. Co., New York, N. Y., (1) $54,450, (2) $55,450, (3) $55,250, (4) $55,750; James Devault, Canton, Ohio, (1) $52,270, (2) $53,000, (3) $53,517, (4) $54,000; James A. Munroe, North Attleboro, (1) $47,817, (2) $48,100, (3) $48,900, (4) $49,200, and Charles W. Wright, Lynn, (1) $54,875, (2) $55,773, (3) $56,273, (4) $56,873. Noted July 8.

★**Repairing Breakwater**—Buffalo, N. Y.—Bids will be received until 11 a.m., Sept. 1, by the U. S. Engineer, Buffalo, for furnishing and placing riprap and repairing concrete superstructure on Buffalo breakwater.

✚**Dredging**—New York, N. Y.—The contract has been awarded to the MARYLAND DREDGING & CONTRACTING CO., Produce Exchange, New York, at 12.45c. per cu.yd., for dredging in the Hackensack River, N. J., and in channel north of Shooters Island, N. Y. Noted June 24.

✚**Mechanical Stokers**—New York, N. Y.—The contract has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn., at $49,332, for installing new mechanical stoker equipment in the boiler plant at the Navy Yard.

Dredging—Baltimore, Md.—Bids will be received until 2:30 p.m., Sept. 15, by the U. S. Engineer, 309 Custom House, Baltimore, for dredging in certain rivers and harbors on the east shore of the Chesapeake Bay.

✚**Boiler Plant**—Indian Head, Md.—The contract has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction and equipment of an extension to the boiler plant at Indian Head Naval Proving Grounds to JOHN W. DANFORTH CO., Buffalo, N. Y., at $153,-931. Noted June 3 and July 15.

Fuel Oil Storage Plants—Norfolk, Va.—Bids will be received until Oct. 16 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of fuel oil storage plants at the navy yard and station.

Post Office—Wellsburg, W. Va.—Bids were received Aug. 11 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Wellsburg, as follows: James Devault, Canton, Ohio, $42,600; Olin Gerlach, Frostburg, Md., $43,692; McFeely Bros., Steubensville, Ohio, $52,990; Westchester Engineering Co., White Plains, N. Y., $43,868; Carl M. Everson, Brilliant, Ohio, $45,779; Callahan-Mandl Co.,Chicago, Ill., $43,476; Thomas W. Cissel, Wooster, Ohio, $42,500; J. L. Crouse, Greensboro, N. C., $44,863; Potters Lumber Co., East Liverpool, Ohio, $43,800; A. S. Craig & Co., Follansbee, $55,214; W. H. Batson, Moundsville, $43,890; Deitrick Construction Co., Washington, D. C., $43,948; W. H. Fissell & Co., New York, N. Y., $42,700; J. S. Rogers Co., Mooresstown, N. Y., $43,200; George A. Shaul, Seneca, Kan., $44,924; John G. Unkefer & Co., Minerva, Ohio, $42,700; Barnes Bros., Logansport, Ind., $42,400; Colonial Construction & Supply Co., Charlottesville, Va., $41,500; W. J. Brent Construction Co., Norfolk, Va., $48,950; Algernon Blair, Montgomery, Ala., $44,-266; Perkins & Jackson, Wheeling, $50,494, and Harris & Spindler, Wheeling, $43,798. Noted July 8.

★**Lock Gates**—Montgomery, Ala.—Bids will be received until noon, Sept. 20, by the U. S. Engineer, Montgomery, for furnishing lock gates.

Metal Work—Milwaukee, Wis.—Bids will be received until 2 p.m., Aug. 25, by the Lighthouse Inspector for furnishing metal work for two steel towers.

Irrigation—Cheyenne, Wyo.—Bids will be received until Sept. 8 at the office of the U. S. Reclamation Service, Denver, Colo., for irrigation work in Goshen Park, Wyo., and Neb., for the first 10 miles of the Ft. Laramie Reclamation. The estimated cost is $1,500,000.

✚**Post Office**—Webb City, Mo.—The contract for the construction of a post office at Webb City has been awarded to GEORGE A. SHAUL, Seneca, Kan., at $51,542. Noted June 17 and Aug. 5.

Dam—Elephant Butte, N. M.—Bids will be received until 2 p.m., Sept. 2, by A. P. Davis, Ch. Engr., U. S. Reclamation Service, Washington, D. C., for furnishing four cylinder gates and accessories for the spillway at the Elephant Butte Dam, Rio Grande Project.

✚**Reclamation**—Provo, Utah—The contract for the construction of Div. 9 of the High Line Canal, Strawberry Valley irrigation project, has been awarded to HOUSER, SIM & VORKINK, Salt Lake City, at $35,505. The work comprises 25,000 cu.yd. of excavation and the placing of 2600 cu.yd. of reinforced concrete. Noted July 1.

Dredging—Bremerton, Wash.—The low bidder for dredging both sides of Piers Nos. 6 and 7 of the Puget Sound Navy Yard, the work comprising the dredging of approximately 22,500 cu.yd. was the Ericson Construction Co., Seattle, at $0.60 per cu.yd.

Fuel Oil Storage Plants—Bremerton, Wash.—Bids will be received until Oct. 16 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of fuel oil storage plants at the navy yard and station.

Fuel Oil Storage Plants—Mare Island, Calif.—Bids will be received until Oct. 16 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of fuel oil storage plants at the navy yard.

Fuel Oil Storage Plants—San Diego, Calif.—Bids will be received until Oct. 16 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of fuel oil storage plants at the navy yard and station.

Seven Buildings—San Diego, Calif.—The low bidder for constructing seven buildings at the radio station was the James H. Jacobs Construction Co., Hellman Bldg., Los Angeles, at $41,010. Noted Apr. 8 and June 24.

Locomotives—Panama—The only bid received by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., Aug. 16, for furnishing 12 electric towing locomotives with additional motors and spare parts was the General Electric Co., Schenectady, N. Y., at $16,800 each. Noted June 17 and July 1.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Aug. 27, by Maj. F. C. Boggs, Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Aug. 31, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

★**Miscellaneous Equipment**—Balboa, Panama—Bids will be received until 10:30 a.m., Sept. 13, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing motor-driven capstans, switchboards, cables and miscellaneous equipment for Dry Dock No. 1, Balboa Terminals.

MISCELLANEOUS

✚★**Dredging**—Boston, Mass.—The contract for dredging the channels at the Pleasant Park Yacht Club, Winthrop; Orient Heights, East Boston; Wessagussett, North Weymouth, and at the Mystic River in the vicinity of Malden Bridge has been awarded to J. P. O'RIORDAN, Boston. Noted Aug. 5.

★**Earth and Concrete Dam**—Wallingford, Conn.—(Official)—Bids will be received by F. A. Wallace (R. Wallace & Sons Co.) until 3 p.m., Aug. 18, for the construction of an earth and concrete dam and appurtenances, at the Rose Farm, Wallingford.

Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier A, Battery Pl., Manhattan, until noon, Aug. 23, for building a freight shed on the pier near the foot of 29th St.

★✚**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the construction of Section No. 2, Route No. 29 of the Nostrand Ave. subway, has been awarded by the Public Service Commission to the DOCK CONTRACTOR CO., Union Sq., New York, N. Y., at $1,692,370. Noted July 15 and Aug. 5.

★✚**Subway Station**—New York, N. Y.—(Borough of Queens)—(Official)—The contract for the construction of the station finish on Route No. 50 of the Queensboro subway extension and Section Nos. 1 and 3, Route Nos. 36 and 37 of the Corona Elevated R.R. has been awarded by the Public Service Commission to SNARE & TRIEST, 233 Broadway, New York, at $750,000. Noted July 15 and Aug. 5.

✚**Machinery and Appurtenances**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for coal hoisting machinery and appurtenances (omitting head house), part of the coal handling plant for O. H. Perry & Son, Inc., foot of East 19th St., has been awarded to the GUARANTEE CONSTRUCTION CO., New York, N. Y. Charles H. Higgins, 30 Church St., New York, N. Y., is Consult. Engr.

Barge Canal Work—St. Johnsville, N. Y.—Bids will be received by W. W. Wotherspoon, State Superintendent of Public Works, Capitol, Albany, N. Y., until noon, Sept. 8, for constructing a harbor and dockwall on the north side of the Mohawk River east of the highway bridge at St. Johnsville. The engineer's estimate is $27,963.

Motor Fire Apparatus—Philadelphia, Penn.—According to press reports, the city plans to motorize the fire department. The City Council has appropriated $100,000 and bids will soon be asked.

Dry Dock Improvements, Etc.—Baltimore, Md.—The Baltimore Dry Docks & Shipbuilding Co. will spend $200,000 for additions and improvements to its plant at Locust Point. H. A. Evans is Vice Pres.

Dam—Toccoa, Ga.—Bids will be received by H. J. Cox, City Clk., for constructing a sectional concrete dam. H. M. Nabstedt is Engr.

Drainage—Cruger, Miss.—M. L. Culley, Jackson, Miss., is making surveys for the Abiaca Drainage District. J. L. Lundy is Comr.

Levees—Alexandria, La.—Bids will be received by the Red River, Atchafalaya and Bayou Bouef Levee Board until Sept. 10 for the following levee construction: White Place to Wilso Point, 140,000 cu.yd.; Simmsport to Deer Range, 130,000 cu.yd.; Alto Crevasse to Crooked Bayou, 325,000 cu.yd. H. B. Gist, Alexandria, is Secy.

✚**Wharves**—New Orleans, La.—The contract for the reconstruction of the Julia St. wharf and for extending the Girod St. wharf has been awarded to the JEFFERSON CONSTRUCTION CO., New Orleans, at $71,498.68. Noted July 22.

Speedway—Louisville, Ky.—George L. Martin, Louis Seelbach, Patrick J. Hanlon and other Louisville men, together with Carl G. Fisher, Pres., Indianapolis Motor Speedway, plan to construct a speedway in Louisville at a cost of $250,000.

Motor Fire Apparatus—Bellaire, Ohio—The following are the bids received for furnishing motor fire apparatus: G. C. Hale, Kansas City, triple combination truck, $8150; combination, $4950; tractor, $4000; total $18,000. Ahrens-Fox, triple combination, $10,000; according to specifications, $9000. J. H. McGraw & Sons, Federal Truck Co., tractor, $2475; tractor M., $2490. Robinson Fire Apparatus Co., triple combination, $10,000; combination, $5500; tractor, $2950; total, $16,320. Boyd Truck Co., triple combination, $8580; combination, $5500; total, $13,800. Eagraves Co., triple combination, $9000; combination, $5000; total, $14,000. American La France, J. F. Johnson, triple combinations at $8500, $9000 and $10,000; combination, $5500; tractor, $4500.

Dredging—Canton, Ohio—W. E. Sarver, City Engr., is preparing plans for dredging and improving East Creek from Tuscarawas St., East, for about two miles.

Subway Approaches—Cleveland, Ohio—The County Commissioners will hold a $2,000,000 bond sale to be used for the construction of subway street car approaches at the Detroit-Superior high level bridge. W. A. Stinchcomb is County Engr.

Tunnel—Columbus, Ohio—Bids will be received by Charles E. Steb, Secy., Board of Trustees, Ohio State University, for constructing a brick and concrete tunnel 6½x6½ ft. and 430 ft. long.

✚**Ore Unloaders**—Conneaut, Ohio—The contract for the construction of two 15-ton ore unloaders for the United States Steel Corporation has been awarded to the WELLMAN-SEAVER-MORGAN CO., Cleveland, Ohio, at $250,000.

Ditch—New Philadelphia, Ohio—Bids will be received by the Joint Board of County Commissioners, Holmes and Tuscarawas Counties, until Sept. 1, for constructing a joint county ditch. R. H. Nassdorfy is Secy. of the Joint Board.

Drainage—Sturgis, Mich.—The lowest bid submitted for constructing Hallwood drain was that of Smith & Nickelson, Sturgis, at $15,500.

Park Improvements—Kenosha, Wis.—The City Council has ordered a $120,000 bond issue, to be used for park improvements, etc.

Elevators—Madison, Wis.—Bids will be received by Lew F. Porter, Secy., Capitol Commission, until Aug. 24 for elevator work in north and final wing of new state capitol. George B. Post & Co., New York, N. Y., is Arch.

Telegraph System—West Allis, Wis.—Bids will be received by George Mahoney, City Clk., until 7:30 p.m., Aug. 20, for the installation of a fire and police alarm telegraph systems.

Drainage—Fort Madison, Iowa—It is reported that plans are being prepared by Edmund T. Perkins, Chicago, Ill., for a drainage district in Green Bay Township. The estimated cost of the proposed work is $348,000.

Tank—Shenandoah, Iowa—Bids will be received until Sept. 2, by C. M. Conway, City Clk., for the construction of a 400,300-gal. elevated tank.

✚**Drainage**—Webster City, Iowa—The following contracts have been awarded by the County Board of Supervisors: Cleaning Castner-Williams-Askland ditch approximately 245,000 cu.yd. to MULGREW-BOYCE & CO., Dubuque, Iowa, at 94.2c. per cu.yd.; Nail Ditch excavation to L. E. NELSON, Webster City, at $5984; tile work to NATIONAL SEWER PIPE CO., Webster City at $10,228.

Score Board—St. Paul, Minn.—Plans are being prepared for the construction of an electric score board for the Twin City Motor Speedway. The estimated cost is $16,000. Samuel Kandel, Chicago, Ill., is Arch.

Dock and Warehouse—St. Louis, Mo.—It is reported that the city will construct a municipal dock and warehouse at the Chain of Rocks to cost about $250,000.

Speedway—St. Louis, Mo.—Press reports state that a speedway is planned for Maxwelton, a suburb of St. Louis. The cost is estimated at $500,000. Frank Arcutt is interested.

✚**Levee**—Cummins, Ark.—The contract for 355,000 cu.yd. of levee work at the Linwood and Auburn levee district has been awarded to LANNAN BROS. & TANSEY, Minden, La., at .1485c. per cu.yd. Noted July 29.

✚**Levee**—Hannaberry, Ark.—The contract for constructing Farrelly Lake Levee, about four miles in length, has been awarded to HALLECK & THOM, Little Rock, at about $35,000.

✚**Levee**—Austin, Tex.—The contract for about 360,000 cu.yd. of earth work for levee construction has been awarded to CHARLES NORDSTROM, Bryan, at 18.85c. per cu.yd. J. L. Nagle is Imp. Engr.

✚**Levee**—Caldwell, Tex.—The contract for about 360,000 cu.yd. of levee embankment, including the construction of ditches, etc., has been awarded to CHARLES NORDSTROM, Bryan, Tex., at .1885c. per cu.yd. J. C. Nagle, Austin, is Engr. Noted July 15.

✚**Dry Dock**—Galveston, Tex.—Plans for the construction of a dry dock on Pelican Spit are nearly completed. The estimated cost is $500,000. J. P. McDonough and associates are the owners. The contract for grading, dredging and bulkhead work has been awarded to JOHN JACOBSON, Texas City; machinery and iron work to the CRANDALL ENGINEERING CO., East Boston, Mass. P. N. Crowell is Engr. in charge of construction. Bartholow-Willits Engineering Co., Galveston, Tex., is Arch.

✚**Wharf, Dredging, Etc.**—Houston, Tex.—Press reports state that the following contracts have been awarded: Wharf, sheds and track to HORTON & HORTON, at $139,000; dredging to L. T. GAYLORD, at $50,000; two elevated tanks, to the SOUTHERN ENGINE & PUMP CO., at $7000. E. E. Sands is City Engr.

✚**Motor Fire Apparatus**—Temple, Tex.—The contract for furnishing motor fire apparatus has been awarded to the AMERICAN LA FRANCE FIRE ENGINE CO., at $18,500. Noted June 17.

Park—Phoenix, Ariz.—The City Commission has authorized an expenditure of $75,000 for the establishment of a park. George Young is Mayor.

Dike—Cathlamet, Wash.—It is reported that the County Commissioners have approved the plans for diking District No. 1. G. A. Kyle, Portland, has prepared plans. The cost is about $160,000.

Dock—Everett, Wash.—W. H. Hoover, City Engr., is preparing plans for a dock, 25 ft. wide and 200 ft. long, with a 150-ft. float.

✚**Drainage**—North Yakima, Wash.—The contract for construction work in Drainage District No. 25, under Schedule 1 has been awarded to E. M. MOORE, 524 Sheridan Ave., Tacoma, at $17,305 and under Schedule 2, to DUNN & HOGAN, North Yakima, at $7148; J. O. Greenway is Drainsge Engr.

Bulkhead—Seattle, Wash.—Press reports state that the County Commissioners have approved the plans for filling and bulkheading East Marginal Way. The cost is estimated at $50,000.

✚**Steamer**—Seattle, Wash.—The contract for the construction of a 600-ton steel steamer for the New York & Cuba Mail Steamship Co. has been awarded to the SEATTLE CONSTRUCTION & DRY DOCK CO., Seattle, Wash.

★**Piers**—Honolulu, Hawaii—Bids will be received by Charles B. Forbes, Chn., Harbor Comrs., until 2 p.m., Sept. 22, for constructing reinforced-concrete piers. For further information see advertisement under "Contracts to Be Let."

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

✚**Orono, Maine**—The contract for the construction of a dormitory for the University of Maine has been awarded to JOHN W. BURROWS & CO., 112 Preble St., Portland, Maine. C. Parker Crowell, 41 Central St., Bangor, Maine, is Arch.

✚**Amherst, Mass.**—The contract for the construction of a laboratory building at the Massachusetts Agricultural College has been awarded to HOOPER & CO., 101 Tremont St., Boston, Mass. J. H. Ritchie, 8 Beacon St., Boston, Mass., is Arch. Noted July 8.

✚**Billerica, Mass.**—The contract for the construction of a three-story, 60x176-ft., brick high school has been awarded to the LEIGHTON-MITCHELL CO., 95 Milk St., Boston, Mass. Brainerd & Leeds, 89 Franklin St., is Arch. The estimated cost is $90,000. Noted July 29.

Boston, Mass.—Fred Holdsworth and Robert D. Farrington will build a 12-story office building at 9-11 Beacon St.

✚**Cambridge, Mass.**—The contract for the construction of St. Paul's Church on Arrow and De Wolfe St. has been awarded to JOHN B. BYRNE, 162 Sidney St. E. T. P. Grossman, 20 Beacon St., Boston, Mass., is Arch.

Fitchburg, Mass.—A theater will be built on Main near Olivers St. George A. Whitney is Arch.

✚**Holyoke, Mass.**—The contract for the construction of a five-story, 65x122-ft., brick business block and theater for James Baker has been awarded to P. J. KENNEDY & CO., INC. George P. B. Alderman & Co., 437 High St., is Arch.

North Adams, Mass.—The City Council plans the construction of a two- and three-story, 90x200-ft. high school to cost $168,000.

Roxbury, Mass.—Plans have been prepared by A. J. Carpenter, Jr., Arch., for the construction of a four-story commercial building at Warren Ave. and Claredon St. Estimated cost, $50,000.

Albany, N. Y.—The Trustees of the Albany Medical College, 58-64 Eagle St., contemplate the construction of a hospital, to cost about $265,000.

✚**Hudson, N. Y.**—CAMPBELL & DEMPSEY, Kingston, has been awarded the general contract for the construction of a jail in the rear of the courthouse. The estimated cost is $50,000. William J. Beardsley, 49 Market St., Poughkeepsie, is Arch.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 3 p.m., Aug. 23, by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., New York, for the general construction of additions and alterations to Public School No. 89 at Newkirk Ave., between East 31st and East 32nd St. Noted May 27.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Warren & Wetmore, Arch., 16 East 47th St., for the construction of a 12-story fireproof apartment house on Park Ave. between 50th and 51st St. for the Park Avenue Improvement Co., Inc. The estimated cost is $700,000. Harry Fischel is Pres. of the company.

✚**New York, N. Y.**—(Borough of Manhattan)—The general contract for the construction of a 16-story bank and office building at Fifth Ave. and 43d St. for the Five Hundred and Eleven Fifth Avenue Corporation has been awarded to the COLUMBUS CIRCLE CONSTRUCTION CO., 15 Columbus Circle, New York. York & Sawyer, 50 East 41st St., is Arch.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Neville & Bagge, Arch., 105 West 40th St. for the construction of a 12-story apartment house at 99th St. and West End Ave. The estimated cost is $500,000. Noted July 22.

New York, N. Y.—(Borough of Manhattan)—The Pan-American States Association, McAlpin Hotel, Broadway, 33d and 34th St., contemplates the construction of a 42-story building to be known as the "All America's Building." L. F. Strickland, 516 Hume-Mansur Bldg., Indianapolis, Ind., is Mgr.

✚**New York, N. Y.**—(Borough of Manhattan)—A. L. MORDECAI & SON, INC., 30 East 42d St., New York, has been awarded the general contract for the construction of a 12-story apartment house on Park Ave. from 51st to 52d St. for the Three Hundred and Thirty Park Avenue Co. Warren & Wetmore, 16 East 47th St., is Arch.

Rensselaer, N. Y.—Plans have been prepared for the construction of a two-story school to replace Public School No. 1 on Third St. The estimated cost is $50,000. William Baker is Chn., Finance Com. of Common Council. Noted July 15.

✚**Rochester, N. Y.**—The general contract for the construction of a two-story, 98x109-ft. brick, store and loft building at East Ave. and Scio St. for Dr. Sumner Hayward has been awarded to E. L. ALBRIGHT, Insurance Bldg., Rochester. Estimated cost, $50,000.

✚**Scarsdale, N. Y.**—The contract for the construction of a two-story brick and stone high school containing an auditorium has been awarded to GEORGE T. KELLY, 20 John St., Yonkers. Estimated cost, $64,000. H. C. Lakin is Clk., Bd. of Education and Guy Lowell, 225 Fifth Ave., New York, is Arch. Noted July 15.

✚**Troy, N. Y.**—The Troy Gas Co. has awarded the general contract for the construction of a five-story, 53x83-ft. office building to CHARLES CROWLEY & CO., 114 Third St., Troy. The cost is estimated at $100,000.

White Plains, N. Y.—(Official)—Bids will be received until 10 a.m., Aug. 31, by the Westchester County Building Commission, Robert W. Brewster, Chn., for a $500,000 addition to the courthouse at White Plains for the County of Westchester. Benjamin W. Morris, 101 Park Ave., New York, is Arch. Plans can be had from the Commission at White Plains. Noted July 15 and 29.

White Plains, N. Y.—Bids will be received about Sept. 1 by Robert S. Brewster, Chn., Westchester County Bldg. Comn., for the construction of the three-story brick and stone county workhouse and penitentiary at East View. The estimated cost is $500,000. Noted May 20 and July 22.

Yonkers, N. Y.—Plans are being prepared by F. J. Berlenbach, Arch., 260 Graham Ave., Brooklyn, for the construction of a brick parochial school on Convent Ave. for the monastery of the Blessed Sacrament. The estimated cost is $50,000.

Bayonne, N. J.—Bids will soon be received by the City Commissioners for the construction of a school to replace Public School No. 5 on 13th St. Noted June 24 and July 29.

East Rutherford, N. J.—(Rutherford post office)—Bids will be received about Aug. 20, for the construction of a two-story, 61x84-ft. brick school on Vreeland Ave. near Paterson St. E. P. Hutton is Secy., Bd. of Education and John Simpson, 1224 Essex Bldg., Newark, is Arch. Noted July 15.

✚**Fort Lee, N. J.**—The J. E. VROMAN CONSTRUCTION CO., North Bergen, has been awarded the general contract for the construction of a one-story, 150x190-ft. motion picture studio for the New Jersey Studios Co. Estimated cost, $40,000. Andrew Hayek, Edgewater, is Arch.

✚**Fort Lee, N. J.**—The general contract for the construction of a brick and terra cotta studio and administration building for the Paragon Film Co., Inc., 31 East 27th St., New York, N. Y., has been awarded J. B. ROBERTS CO., 1 Madison Ave., New York, N. Y. The estimated cost is $60,000. Ernest Flagg, 109 Broad St., New York, N. Y., is Arch.

Paterson, N. J.—Bids will soon be received by Lee & Hewitt, Arch., 1123 Broadway, New York, N. Y., for the construction of a brick and stone edifice at Broadway and East 27th St. for the Church of the Covenant. Estimated cost, $100,000. Contracts will be awarded about Sept. 15.

+Princeton, N. J.—The MATTHEWS CONSTRUCTION CO., Princeton, has been awarded the general contract for the construction of a dining hall at the Princeton University. The entire cost is estimated at $300,000. Noted May 27.

Erie, Penn.—B. E. Briggs, City Engr., has plans for the construction of a union depot and subways at Peach and Sassafras St. The cost is estimated at $1,800,000. A. T. Hardin, New York, N. Y., is Vice-Pres. of the New York Central R.R.

+Philadelphia, Penn.—The contract for the construction of a two-story public school at Cheltenham Ave. and Rising Sun Lane has been awarded to W. R. DOUGHERTY, 1608 Sansom St., Philadelphia, at $68,000.

+Pittsburgh, Penn.—(Official)—The contract for the remodeling of the passenger station at Smithfield and Water St. has been awarded to EDWARD BRADY & SON. M. A. Long is Arch. Noted Aug. 12.

Madison, W. Va.—(Official)—The time for receiving bids has been extended to Aug. 24, for the construction of a courthouse for Boone County. Elmer Nelson is County Clk. Noted July 22.

+Parkersburg, W. Va.—The ROCHE BRUNER BUILDING CO., 609 Johnston Bldg., Cincinnati, Ohio, at $234,026, has been awarded the general contract for the construction of a three-story, 182x235-ft. high school. Noted July 22.

Charlotte, N. C.—Plans are being prepared by Louis H. Asbury, Arch., for the construction of a brick and stone church for the Hawthorn Lane M. E. Church. The estimated cost is $40,000.

New Orleans, La.—Plans are being prepared by Baccich & De Monthuzen, Arch., for the construction of a building containing 50 rooms to be used as a Jesuit Retreat House and Chapel for the Jesuit Order. The estimated cost is $50,000. John D. Foulkes, S. J., is Representative.

Lexington, Ky.—The City Commissioners plan to hold an election in November to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of two schools.

Louisville, Ky.—The Bankers' Realty Co. will construct a five-story office building at Fourth and Market St. Estimated cost, $125,000. George G. Summers is interested.

Cincinnati, Ohio—Elzner & Anderson, Arch., Ingalls Bldg., has prepared plans for the construction of additions to buildings at the Longview Hospital. The estimated cost is $250,000. Noted July 1.

Cincinnati, Ohio—Bids will be received about Sept. 15, for the construction of a group of buildings for the Walnut Hills High School on Madison Rd., Hyde Park. The estimated cost is $1,000,000. Garber & Woodward, Union Central Bldg., is Arch. Noted June 3.

Cincinnati, Ohio—Bids will be received until noon, Sept. 12, by the Clerk of the Board of Education, third floor, City Hall, for the remodeling of the Lincoln Public School, Delta and Golden Ave., and the Washburn Public School, Clinton and Linn St. C. W. Handman is Business Mgr.

Cleveland, Ohio—The congregation of the St. Wendelen's Slovak Church, 2281 Columbus Rd. S. W., contemplates the construction of a group of buildings at Columbus Rd. and Freeman Ave. S. W. The group will include a church, school parsonage and sisters' home, and will cost about $175,000. Augustine Tomaseek is Pastor.

Cleveland, Ohio—Preliminary plans have been prepared for the construction of a commercial building at 1601 Euclid Ave. near East 16th St. through to Dodge Court. The estimated cost is $100,000. E. C. Beach, Williamson Bldg., is interested.

Columbus, Ohio—Bids will be received until noon Aug. 27, by Charles E. Steel, Secy., Bd. of Trustees, for the construction of a building for the College of Homeopathic Medicine and for the Home Economics Bldg., at the Ohio State University. Noted July 29.

Dayton, Ohio—Pretzinger & Musselman, Arch., is preparing plans for the construction of a five-story reinforced-concrete building at Third and Jefferson St. for the B. P. O. E., Lodge No. 58. The estimated cost is $250,000.

Van Wert, Ohio—George H. Marsh has purchased the school building in the Fourth Ward and plans to remodel it for hospital purposes. The estimated cost is $40,000.

Bloomington, Ind.—Bids will be received about Oct. 1 by R. P. Daggett & Co., Arch., 956 Lemcke Annex, Indianapolis, for the construction of a gymnasium at the Indiana University. The estimated cost is $150,000. Noted May 6 and 20.

Indianapolis, Ind.—Plans have been prepared for the construction of an apartment house at 16th and Meridian St. for the Hampton Court Realty Co. The estimated cost is $175,000.

Indianapolis, Ind.—The business men plan to construct an armory for the Indiana National Guard. The cost is estimated between $300,000 and $500,000.

Rockport, Ind.—The Spencer County Board of Commissioners has decided to appropriate $150,000 to be used for the construction of a county courthouse.

Albion, Mich.—The Albion College will construct a two-story physics laboratory building. Estimated cost, $40,000.

Kalamazoo, Mich.—Bids will be received until Oct. 1, by the Kalamazoo State Hospital for the construction of a three-story, brick building to be used by the employees of the hospital. The estimated cost is $56,000. Wernette-Bradfield-Mead Co., Grand Rapids, is Arch. Noted July 22.

Aurora, Ill.—The Island Improvement Co. plans to construct a hotel on an island which was recently added to the city. The cost is estimated at $200,000.

Chicago, Ill.—Plans are being prepared by Henry L. Newhouse, Arch., 4630 Prairie Ave., for the construction of a store, theater and apartment building on Broadway near Granville Ave. for J. M. Browarsky, 30 North La Salle St. The estimated cost is $130,000. Noted May 27.

Monmouth, Ill.—Plans are being prepared by Temple & Burrows, Arch., McManus Bldg., Davenport, Iowa, for the construction of a three-story city hall. The estimated cost is $50,000.

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section No. 1—Route No. 49

Bids were received July 20 by the Public Service Commission for the construction of Section No. 1, Route No. 49, a part of the Culver Rapid Transit R.R. from: (A) Post & McCord, (B) Phœnix Bridge Co., (C) A. L. Guidone & Son, Inc., (D) Cooper & Evans, (E) Connex Engineering & Construction Co., (F) Rodgers & Hagerty, Inc., (G) Frawley-Kaufman Contracting Co., (H) Oscar Daniels Co., (I) McClintic-Mashall Co., (J) Underpinning & Foundation Co., (K) Ft. Pitt Bridge Works, Pittsburgh, Penn., (L) Snare & Triest Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
21,900 cu.yd. column excavation	$1.15	$1.40	$1.45	$2.50	$2.00	$1.00	$1.40	$1.20	$1.35	$1.75	$1.25	$1.50
12,900 cu.yd. railroad duct excavation	1.10	1.00	1.50	1.00	.75	1.35	1.40	1.00	1.25	2.00	1.35	1.30
8500 cu.yd. concrete masonry	5.85	5.65	7.00	5.00	8.00	6.00	6.00	5.00	5.85	7.00	6.00	5.50
10 cu.yd. brick masonry	15.00	20.00	15.00	20.00	10.00	15.00	20.00	15.00	15.00	25.00	15.00	20.00
500 lin.ft. timber piles	.35	.50	1.00	1.00	.10	.10	.50	.30	.40	1.00	.35	.50
2 M ft. timber foundations	60.00	60.00	54.00	50.00	10.00	40.00	60.00	50.00	75.00	45.00	60.00	60.00
320 lin.ft. vitrified pipe, 4 in.	.20	.50	.20	.60	1.00	.40	.50	.50	.30	1.00	.25	.50
329,000 duct ft. railroad ducts	.12	.10½	.14	.10½	.09½	.15	.15	.14	.11½	.17	.12	.21
14,500 tons riveted steel (painted and erected)	46.50	48.00	46.00	47.85	49.00	48.00	47.70	49.00	50.40	45.50	49.80	49.80
600 tons steel beams and shapes	46.50	48.00	46.00	47.85	49.00	48.00	48.00	49.00	45.60	45.50	48.40	49.80
5 tons steel rods and bars in concrete	60.00	42.00	60.00	40.00	60.00	50.00	60.00	60.00	50.00	100.00	60.00	54.00
180 ton miscellaneous iron castings	55.00	45.00	60.00	36.00	55.00	50.00	50.00	41.00	41.00	80.00	50.00	56.00
3000 sq.yd. street surface restored	3.00	2.50	2.50	2.50	.50	2.50	1.50	2.75	1.50	3.00	2.50	2.00
300 lin.ft. 5-in. blue stone curb	1.00	.90	1.00	1.25	1.00	1.00	1.00	.90	1.10	1.50	1.00	1.25
100 lin.ft. 4-in. blue stone curb	1.00	.70	.90	1.00	1.00	1.00	1.00	.80	1.00	1.25	.90	1.10
4000 lin.ft. restoring old curb	.20	.25	.25	.25	.25	.15	.25	.20	.20	.75	.25	.30
13,500 lin.ft. electric overhead trolley	1.20	.70	1.00	.60	.25	1.00	1.00	1.00	1.00	1.10	2.00	2.40
100 lin.ft. depressing street surface R.R.	.50	2.00	4.50	5.00	.50	4.00	4.00	5.15	4.00	2.00	2.00	4.00
200 lin.ft. lateral movement of turnout tracks	.50	2.50	4.50	4.00	1.00	3.00	5.00	5.15	2.50	3.00	2.50	3.00
8800 lin.ft. lateral movement of surface tracks	.50	1.25	1.30	1.50	.25	2.40	2.00	2.75	2.00	2.50	2.15	2.75
1800 lin.ft. removing street surface tracks	.30	.45	.60	1.00	.10	.50	1.00	.50	.50	2.00	.55	1.50
1600 lin.ft. rebuilding street surface tracks	.85	.70	.90	1.00	.25	1.25	2.00	1.00	3.00	2.50	2.25	2.50
100 lin.ft. 4-in. water pipes	.50	.90	.50	1.00	.10	.40	.75	1.50	.80	1.25	.70	.60
100 lin.ft. 6-in. water pipes	.75	1.00	.50	1.25	.10	.50	1.00	2.00	1.00	1.50	.80	1.00
100 lin.ft. 8-in. water pipes	1.00	1.10	.50	1.50	.10	.75	1.50	2.50	1.25	2.00	1.00	1.25
100 lin.ft. 20-in. water pipes	2.00	2.50	1.50	3.00	.10	2.00	2.00	3.00	4.25	5.00	1.75	2.00
100 lin.ft. 36-in. water pipes	7.00	6.00	4.00	5.00	.10	3.00	4.00	3.00	10.00	8.00	4.50	3.00
100 lin.ft. 4-in. c.i. gas pipes	.50	.70	.45	1.00	.10	.40	.75	1.25	.80	1.25	.70	.60
100 lin.ft. 6-in. c.i. gas pipes	.75	1.00	.45	1.25	.10	.50	1.00	1.75	1.05	1.50	.80	1.00
100 lin.ft. 8-in. c.i. gas pipes	1.00	1.10	.50	1.50	.10	.75	1.50	2.25	1.35	2.00	1.00	1.25
100 lin.ft. 12-in. c.i. gas pipes	1.50	1.80	.75	2.00	.10	1.00	2.00	2.75	1.75	2.50	1.50	1.75
60 lin.ft. 6-in. w.i. gas pipes	1.00	1.05	1.00	2.00	.10	1.50	1.00	.75	1.25	2.50	.50	1.00
60 lin.ft. 8-in. w.i. gas pipes	1.00	1.15	1.00	3.00	.10	2.50	1.50	1.00	1.50	3.00	.80	1.50
4 ton c.i. hub and spigot straight pipe	50.00	35.00	65.00	70.00	60.00	30.00	40.00	30.00	60.00	50.00	40.00	40.00
50 lin.ft. standard weight 6-in. w.i. gas pipe	1.00	1.00	1.10	2.00	1.00	1.50	1.00	1.40	1.25	2.50	.70	1.50
50 lin.ft. standard weight 8-in. w.i. gas pipe	1.00	1.10	1.40	3.00	1.20	2.50	1.50	2.00	1.50	3.00	1.00	2.00
10 ton c.i. hub and spigot pipe special casting	70.00	60.00	65.00	70.00	80.00	65.00	70.00	60.00	60.00	100.00	70.00	60.00
100 lb. new malleable fittings for w.i. gas pipe	.10	.10	.05	1.00	.10	.20	.10	.20	.25	.15	.05	.10
2000 duct ft. electric ducts and conduits	.35	.25	.40	.40	.50	.50	.50	.50	.25	1.00	.30	.40
100 lin.ft. 2½ in. w.i. pipe electric ducts and conduits	.30	.70	.45	1.00	.50	1.00	1.00	.50	.50	1.50	.40	.60
100 duct ft. wooden ducts and conduits	.30	.60	.90	1.00	.50	1.00	1.00	.50	.50	1.50	.35	.60
100 duct ft. fibre electric ducts and conduits	.30	.60	.40	1.00	.60	1.00	1.00	.50	.50	1.50	.40	.60
5 electric ground connection to railroad structure	50.00	40.00	100.00	75.00	25.00	50.00	10.00	100.00	50.00	30.00	90.00	50.00
Extended totals	$877,959	$894,554	$904,437	$914,732	$915,172	$924,853	$926,895	$931,690	$947,358	$947,410	$959,803	$971,175

Eau Claire, Wis.—(Official)—Bids will be received until noon, Sept. 1, by J. C. Fennessey, City Clk., for the construction of a city hall. George Awsumb, Arch., 14 East Jackson Blvd., Chicago, Ill. has prepared plans. Noted July 15 and 29.

Milwaukee, Wis.—The Board of School Directors has commissioned Van Ryn & De Gelleke, Arch., 726 Caswell Blk., to prepare plans for the construction of a three-story brick and stone addition to the West Division High School, 23rd and Prairie St. Estimated cost, $50,000. Frank M. Harbach is Secy, of the Bd.

✚Milwaukee, Wis.—The contract for the construction of a ten-story, 80x135-ft. reinforced-concrete and terra cotta, mercantile and office building on West Water St. near Grand Ave. for the Ticonic Investment Co., 927 Wells Bldg., has been awarded to the DAHLMAN CONSTRUCTION CO., 912 Majestic Bldg., Milwaukee. Estimated cost, $125,000. Noted Apr. 29.

Milwaukee, Wis.—N. Stone plans to construct a four-story, 75x120-ft. hotel and store building at Third and Sycamore St. The estimated cost is $100,000.

Milwaukee, Wis.—A group of Chicago promoters plan to construct an apartment house on Wisconsin St. opposite the Northwestern station. The estimated cost is $400,000.

Milwaukee, Wis.—Work on the construction of a block to replace the Plankinton House will begin about Sept. 15. Charles Somers, Cleveland, Ohio, is interested. The estimated cost of the entire project is $2,000,000. Noted Oct. 15.

Montello, Wis.—Bids will be received until Aug. 16, by the County Clerk for the construction of a two-story courthouse and jail. Parkinson & Dockendorf, Linken Bldg., La Crosse, is Arch. Noted July 22.

Sparta, Wis.—The School Board has passed a resolution providing for a $75,000 bond issue. The proceeds will be used for the construction of a high school.

✚Stevens Point, Wis.—(Official)—The contract for the construction of a dormitory at the Stevens Point Normal School has been awarded to the J. F. WEINBERG CONSTRUCTION CO., Grand Rapids, at $58,486. Noted Aug. 12.

Grundy Center, Iowa—At a recent election the citizens voted in favor of issuing $85,000 in bonds. The proceeds will be used for the construction of a school.

Jefferson, Iowa—Plans are being prepared by Proudfoot, Bird & Rawson, Arch., 810 Hubbell Bldg., Des Moines, for the construction of an 80x120-ft. courthouse for Greene County. The estimated cost is $150,000.

✚Sioux City, Iowa—The contract for the construction of a two-story, 85x114-ft. brick church at 19th and Nebraska St. for the First M. E. Church has been awarded to DUBEL & ANDERSON, 514 Jackson St., Sioux City, at $65,000. Other bids were: Cromer & Small, $70,000; Andrew Ostling, $76,873; Babue & Son, $79,385; Bankers Realty & Investment Co., Omaha, Neb., $67,390; Anton Zwack, Dubuque, $75,459; Egley, Payette Construction Co., $71,451. Beuttler & Arnold, Davidson Auto Block, is Arch. Noted June 17.

Tipton, Iowa—Bids will be received until Sept. 2, by T. C. Moffet, County Audr., for the construction of a county house to cost about $50,000. Charles A. Dieman & Co., Granby Bldg., Cedar Rapids, is Arch. Noted July 29.

Crosby, Minn.—(Official)—Bids will be received until 2 p.m., Aug. 27, by J. E. McCoy, Clk., Bd. of Education, Ironton, for the construction of a two-story brick high school. The estimated cost is $100,000. Noted Aug. 5.

Duluth, Minn.—Plans are being prepared by F. G. German, Arch., 411 American Exchange Bank Bldg., for the construction of a building for the Y. M. C. A. The estimated cost is $60,000.

Minneapolis, Minn.—The First Baptist Church plans to construct a temple on 11th St. near Hennepin St. The building will contain a four-story auditorium with two 12-story wings and cost about $1,000,000. William B. Riley is Pastor.

Minneapolis, Minn.—Bids will be received until Sept. 1, by A. L. Van Dyck, Arch., 741 McKnight Bldg., for the construction of a three-story, 42x120-ft. building for the Maternity Hospital at 2201 Western Ave. The estimated cost is $50,000. Noted July 29 and Aug. 12.

Atchison, Kan.—The Kansas Avenue Methodist Church plans to construct an edifice. Estimated cost, $40,000.

Emporia, Kan.—Plans have been prepared by C. H. Chandler, Arch., State House, Topeka, for the construction of a four-story, brick and reinforced-concrete addition to the State Normal School. The estimated cost is $175,000.

✚Hays, Kan.—The contract for the construction of a two-story, 50x100-ft. brick hospital for the St. Agnes Sisters has been awarded to the JACOBS CONSTRUCTION CO., Hays. The estimated cost is $70,000. Noted June 24.

Hays, Kan.—The State Board of Administration has approved and accepted the plans prepared by C. H. Chandler, State Arch., for the construction of a three-story, fireproof building at the Fort Hays Kansas Normal School. The structure will be known as the Sheridan Coliseum and will cost about $100,000.

✚Independence, Kan.—The contract for the construction of a five-story, 92x183-ft. brick and stone office building for the Prairie Oil and Gas Co. has been awarded to the THOMPSON-STARRETT CO., 49 Wall St., New York, N. Y. The estimated cost is $300,000. Madorie & Birdsall, 832 National Reserve Bank Bldg., Kansas City, Mo. is Arch. Noted Apr. 8.

Kansas City, Mo.—Preliminary plans have been prepared by Wilder & Wight, Arch., 400 First National Bank Bldg., for the construction of a reinforced-concrete hospital for crippled and blind children to be known as the Non-Sectarian Mercy Hospital at Independence and Highland Ave. The estimated cost is $200,000.

Kansas City, Mo.—Plans are being prepared by Shepard, Farrar & Wiser, Arch., 1202 R. A. Long Bldg., for the construction of a two-story, 105x106-ft. brick church at 12th St. and Bales Ave. for the Bales Baptist Church. The estimated cost is $50,000. E. D. Hogan, 4916 Agnes St., is Chn. of Bldg. Com.

✚Kansas City, Mo.—The contract for the construction of a building at Linwood Blvd. and Prospect Ave. for the St. Joseph's Hospital has been awarded to the GEORGE A. FULLER CONSTRUCTION CO., 2218 Grand Ave., Kansas City. The estimated cost is $500,000. Wilder & Wight, 400 First National Bank Bldg., is Arch. Noted July 1.

✚Minneapolis, Kan.—The School Board has awarded the contract for the construction of a two-story, 60x100-ft. brick school to the KEARN-BOWER CO., Topeka. Estimated cost, $40,000. Noted June 17 and 24.

Fairbury, Neb.—Plans are being prepared for the construction of a fire-proof motion picture theater to cost about $65,000. T. W. Van Leich and W. S. Weertser, Chicago, Ill. and C. W. Bartlett, Fairbury, are interested.

✚Omaha, Neb.—The contract for the construction of a church at 16th and Center St. has been awarded to O. F. NELSON, 600 Barker Blk., Omaha, at $40,000.

✚Omaha, Neb.—The contract for the construction of a hospital at 25th and Douglas St. has been awarded to the HOME BUILDERS CO., Omaha. James T. Allen, Brandeis Theater Bldg., is Arch. and Dr. Michael J. Ford is in charge. The estimated cost is $150,000. Noted July 22.

Cheyenne, Wyo.—Bids will be received until Sept. 6, by H. B. Gates, State Treas. for the construction of additions and alterations to the State Capitol. The estimated cost is $150,000. William Du Bois, 1614 Capitol Ave., is Arch. Noted Mar. 11.

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FREMONT AVE. BRIDGE, SEATTLE, WASH.

Bids were received July 23 by A. H. Dimock, City Engr., Seattle, Wash., for the construction of the superstructure of a bridge over Lake Washington Canal at Fremont Ave. from: (A) Booker, Kiehl & Whipple; (B) J. R. Wood; (C) Beer's Building Co. Bids for the substructure of the same bridge were received from: (A) Pacific States Construction Co.; (B) Hans Pederson; (C) Beer's Building Co. The item bids were as follows:

Superstructure	A	B	C
260,000 lb. machinery, furnishing and erecting	$0.112	$0.115	$0.125
2,050,000 lb. structural steel, furnishing and erecting	.041	.042½	.043
Furnishing 305,000 lb. structural steel, erected by contractor for substructure	.0333	.035	.035
700 cu.yd. furnishing, placing and adjusting gravel concrete counterweight	5.65	7.00	5.00
10 cu.yd. furnishing, placing and adjusting cinder concrete counterweight	5.65	10.00	7.00
1 gravel concrete test block, furnishing and weighing	11.00	25.00	10.00
1 cinder concrete test block, furnishing and weighing	11.00	25.00	10.00
1010 sq.yd. roadway floor on movable leaves	5.25	5.35	2.85
400 sq.yd. roadway floor, including reinforcement, on fixed portion	3.30	3.40	2.40
490 sq.yd. sidewalk floor on movable leaves	1.00	.75	.50
172 sq.yd. sidewalk floor on fixed portion	1.20	1.00	1.25
20,000 lb. reinforcing bars in concrete counterweight	.03	.04	.0275
Electrical equipment complete in place (lump sum)	13,819	11,950	13,288
4 operators' houses and 2 toilet rooms complete (lump sum)	6890.00	8000.00	600.00
Meneely fog bell in place (lump sum)	90.00	125.00	100.00
2 copper ball vessel signals in place	70.00	175.00	15.00
4 double-arm roadway gates complete in place	302.50	300.00	300.00
Wooden steps and railings and angle iron bracket supports for access to machinery at sides of trusses	125.00	25.00	200.00
2 pairs steel ladders for access to counterweight pit pumps	50.00	35.00	60.00
2 pit pumps complete	429.00	175.00	425.00
2 iron gratings over counterweight pit pumps	25.00	15.00	20.00
60 lin.ft. black iron pipe railings on stairways and platforms below deck	1.65	.75	.50
2 machinery houses complete	450.00	450.00	300.00
130 lin.ft. galvanized iron pipe railings at sides and rear of anchor piers	2.00	1.25	.50
14 oak buffer blocks	5.00	5.00	3.00
Extended totals	$159,890	$163,618	$154,001

Substructure	A	B	C
Removing existing structures and debris (lumpsum)	$2000.00	$3500.00	$1000.00
15,000 cu.yd. excavation	2.00	2.80	2.50
3500 cu.yd., Class A, concrete deposited under water	7.00	6.60	7.50
3200 cu.yd., Class C, concrete in piers above water	6.65	7.00	7.50
6700 cu.yd., Class C, concrete in unwatered foundations and piers (alternate to two preceding items)	6.75	7.00	8.15
1100 cu.yd., Class B, concrete	10.00	12.00	6.00
300 cu.yd., Class D, mortar	20.00	15.00	10.00
155,000 lb. reinforcing steel	.03	.028	.0275
Placing and painting structural steel, grillages and anchor bolts, including grouting, 305,000 lb.	.0075	.004	.0037
2 fir bumping logs	23.00	25.00	10.00
7000 lin.ft. peeled piles in protection works	.20	.20	.15
9 M ft. b.m. timber in protection works	25.00	25.00	14.00
570 lin.ft. chains on dolphins	.30	.30	.30
4 test piles	10.00	5.00	10.00
1200 cu.yd. extra excavation below elevation—35	1.50	2.00	2.00
1200 cu.yd. extra, Class A, concrete below elevation—32	6.00	4.00	6.00
1200 cu.yd. extra, Class C, concrete in case foundations are unwatered (alternate to preceding item)	5.85	5.00	6.00
8 eye bolts is shafts of anchor piers	2.50	2.00	15.00
Extended totals	$112,651	$123,422	$127,008
Alternates	$111,916	$126,024	$131,423

BUILDINGS—Continued from Page 138

Billings, Mont.—Bids will soon be received for the construction of an edifice for the First Presbyterian Church. The estimated cost is $40,000.

✚Great Falls, Mont.—The contract for the construction of a three-story, concrete office building to be known as the Tribune Bldg. has been awarded to the NESS-THEISON CONSTRUCTION CO., Great Falls, at $76,200. Noted May 20.

Ozark, Mo.—An election will be held Oct. 30 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a courthouse for Christian County. Noted July 15.

St. Joseph, Mo.—The School Board is having plans prepared for the construction of the Bliss Ward School to cost about $65,000 and for the North St. Joseph High School, estimated to cost $150,000.

St. Louis, Mo.—Plans are being prepared by John M. Dunham Co., Arch., 1018 Chemical Bldg., for the construction of a five-story, reinforced-concrete, fireproof building at 410 Washington Ave. for Joseph J. Foster. The estimated cost is $73,000.

✚St. Louis, Mo.—The contract for the construction of a two-story mercantile building at 1100-4 North Sixth St., for the Biddle Estate, has been awarded to N. SCHWEGLER, at $40,000.

St. Louis, Mo.—The Mercantile Trust Co. plans to construct an addition to its building at Eighth and Locust St. The cost is estimated at $500,000.

Coldspring, Tex.—Lane & Dowdy, Arch., 710 Paul Bldg., Houston, is preparing plans for the construction of a courthouse for San Jacinto County. The estimated cost is $40,000. Noted May 20.

College Station, Tex.—(Official)—Bids will be received about Oct. 1 for the construction of a group of buildings at the Agricultural and Mechanical College. The group will include a $50,000 hospital, $40,000 stock judging pavilion, a dairy, laundry and barn. R. Adelspeyer is Arch. and J. K. Ashburn is Publicity Agent. Noted July 22 and 29.

Dallas, Tex.—Plans are being prepared by William B. Ithner, Arch., 408 Board of Education Bldg., St. Louis, Mo., for the construction of a school. The estimated cost is $120,000.

Nacogdoches, Tex.—An election will soon be held to vote on the question of issuing $45,000 in bonds. The proceeds will be used for the construction of a school.

San Angelo, Tex.—(Official)—Bids will be received until Aug. 25, for the construction of a three-story brick high school. Ross & Cason, 1509 Amicable Bldg., Waco, is Arch. Noted May 27.

Tahoka, Tex.—At a recent election the citizens voted in favor of issuing $60,000 in bonds, the proceeds of which will be used for the construction of a courthouse and jail for Lynn County. Noted July 29.

✚Oklahoma, Okla.—The general contract for the construction of the Oklahoma State Capitol has been awarded to JAMES STEWART & CO., INC., 30 Church St., New York, N. Y. The estimated cost of the project is $1,500,000. John H. Frederickson is the Western Mgr. of the company. Noted June 24.

Clarkdale, Ariz.—At a recent election the citizens voted in favor of issuing $45,000 in bonds. The proceeds will be used for the construction of a high school.

Kingman, Ariz.—At a recent election the citizens voted in favor of issuing $60,000 in bonds. The proceeds will be used for the construction of a school.

Medical Lake, Wash.—The State Board of Control has approved and accepted the plans prepared by Julius A. Zittel, Arch., 507 Jamieson Bldg., Spokane, for the construction of five buildings at the Medical Lake School for Feeble-Minded. The entire cost is estimated at $500,000. Noted Aug. 5.

Seattle, Wash.—S. Benson has donated $100,000 to be used for the construction of the first unit of a School of Trades for Boys and Girls. The School Board will appropriate $100,000 toward this work.

Seattle, Wash.—Bids have been received for the construction of an apartment and hotel building at Fourth and Marion St. as follows: Woeck & Behrens, Arcade Bldg., $84,187; Grant Smith & Co., Henry Bldg., $82,950; Pacific States Construction Co., Burke Bldg., $80,000; Sound Construction & Engineering Co., Lowman Bldg., $79,879; Booker, Kiehl & Whipple, Central Bldg., $79,500; Kieburtz & Smith, Railway Exchange Bldg., $77,300; Ferro Concrete Co., Empire Bldg., $76,392; Brandt Construction Co., 2327 5th N. St., $75,867; Butler Construction Co., Central Bldg., $75,100; Erickson & Larson, 5011 Meridian St., $75,025; Washington Construction Co., Northern Bldg., $74,302; Jenkins & Jones, Transportation Bldg., $74,000; J. H. Tolman, Haight Bldg., $73,572; Nettleton-Bruce-Eschbach Co., American Bank Bldg., $73,500; Franklin Engine Co., Alaska Bldg., $73,200; Pearson Construction Co., New York Blk., $71,887; F. Forrestal, 312 20th Ave. S., $71,700; A. U. Quist & Co., Hoge Bldg., $71,525; Martin & Dugan, Northern Bank Bldg., $71,300; Syliessan & Sando, Downs Bldg., $71,000; Finne & Gjarde, Northern Bank Bldg., $66,559; McRae Bros., American Bank Bldg., $67,182. W. R. Willcox, Boston Blk., is Arch.

Vancouver, Wash.—The State Board of Control has approved and accepted the plans prepared for the construction of an administration building at the School for the Blind. Estimated cost, $75,000. Noted June 10 and July 22.

Portland, Ore.—Bids will soon be received for the construction of a business and office building at Grand Ave. and East Alder St. for the East Side Holding Co. and the Citizens Bank. The estimated cost is $50,000.

Sacramento, Calif.—The Legislature has appropriated $2,000,000 to be used for repairing, enlarging and developing state buildings in California. The appropriation includes $195,000 for additional buildings at the Norwalk State Hospital for the Insane, Norwalk; $50,000 for cottages at the Southern California State Hospital; $50,000 for exposition buildings in Los Angeles Agricultural Park; $60,000 for cottages at Whittier State School; $52,000 for two cottages at the Ventura School for Girls.

✚Sacramento, Calif.—The contract for the construction o a seven-story bank building for the Capitol National Bank has been awarded to the McGILLIVRAY CONSTRUCTION CO. Estimated cost, $200,000.

San Francisco, Calif.—M. M. O'Shaughnessy, City Engr. is preparing plans for the construction of the Forest Hill Station on the line of the Twin Peaks Tunnel. The estimated cost is $250,000.

✚The Narrows, Man.—The contract for the construction of a school has been awarded to PIGOTT & HEALEY, Battleford, Sask. Estimated cost, $43,000. Noted July 1.

✚Rothesay, N. B.—The Consolidated School Board has awarded the general contract for the construction of a school to W. H. HENDERSON, Rothesay. The estimated cost is $70,000.

SEWER EXTENSION—BOSTON, MASS.

Section 106

✚Bids were received July 28 by the Metropolitan Water and Sewerage Board for the construction of sewers in Section No. 106 of the high level sewer, South Metropolitan System, in Needham and Wellesley from (A) Bruno & Petitti, (B) M. Russo & Son, (C) Michael Meehan, (D) Henry Spinach Contracting Co., (E) George M. Bryne, (F) Coleman Bros., (G) HUGH NAWN CONTRACTING CO., Roxbury, (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G
4330 lin.ft. earth excavation and refilling in trench and embankment 24 in. x 27 in. concrete sewer	$10.00	$7.84	$6.00	$6.00	$6.00	$4.70	$2.75
25 lin.ft. earth or rock excavation in tunnel, 24 in. x 27 in. concrete sewer	25.00	14.00	25.00	25.00	25.00	20.00	6.00
60 cu.yd. portland brick masonry in manholes	16.00	17.00	20.00	20.00	16.00	17.00	18.00
1950 cu.yd. portland concrete masonry in trench	8.50	9.00	8.50	8.00	8.00	8.00	7.50
15 cu.yd. portland concrete masonry in tunnel	15.00	12.00	15.00	15.00	10.00	12.00	10.00
Extended totals	$61,685	$53,047	$44,605	$43,630	$43,315	$37,651	$27,912

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section No. 2, Route No. 29

Bids were received July 28 by the Public Service Commission for the construction of Section No. 2, Route No. 29, a part of the Nostrand Ave. Subway from (A) Dock Contractor Co., (B) D. Donegan Co., (C) T. A. Gillespie Co., (D) Newman & Carey, (E) Rodgers & Hagerty, Inc., (F) Underpinning & Foundation Co., (G) Oscar Daniels Co., (H) Mason & Hanger Co., Inc., (I) E. E. Smith Contracting Co., (J) John J. Creem. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
262,800 cu.yd. earth excavation above main high water (ex. S. & D.)	$1.73	$1.80	$2.20	$1.90	$2.40	$2.00	$2.50	$2.30	$2.65	$4.00
19,000 cu.yd. earth excavation below main high water (Ex. S. & D.)	1.73	2.25	2.20	3.50	2.40	7.00	3.00	2.30	3.50	4.00
46,200 cu.yd. earth excavation above and below main high water S. P. & D.	1.73	2.00	2.20	1.90	2.40	2.00	2.50	2.30	2.65	4.00
80 lf.ft. underpinning buildings under seven stories	85.00	20.00	50.00	60.00	50.00	100.00	50.00	40.00	40.00	42.00
1000 lf.ft. maintaining, protecting and securing buildings	69.00	20.00	10.00	20.00	1.00	50.00	20.00	25.00	1.00	26.00
53,000 cu.yd. concrete masonry in place	6.25	7.00	7.00	7.50	7.50	6.50	8.00	8.00	8.00	8.00
8100 cu.yd. concrete masonry outside of waterproofing	6.25	7.00	7.00	6.50	7.50	6.50	8.00	8.00	7.00	8.00
50 cu.yd. rubble stone masonry	6.00	6.00	8.00	10.00	3.00	6.50	12.00	6.50	7.00	8.00
50 cu.yd. dry rubble masonry	5.50	6.00	3.50	10.00	2.00	6.00	7.00	5.00	6.00	6.00
60 cu.yd. brick masonry	14.00	18.00	14.00	20.00	15.00	25.00	12.00	15.00	15.00	15.00
2 cu.yd. vitrified brick masonry	20.00	25.00	25.00	50.00	30.00	25.00	20.00	17.00	20.00	30.00
60 cu.yd. hollow terra cotta brick or tile masonry	12.00	15.00	15.00	15.00	15.00	25.00	15.00	15.00	15.00	15.00
1000 bbl. grout of Portland cement	1.00	2.00	2.70	2.65	.90	2.00	1.00	2.50	2.50	2.50
1000 lin.ft. timber piles, in place and prepared	.20	.60	.40	.60	.15	.70	.30	.50	.50	.30
2 M ft. b.m. timber foundations placed and fastened	45.00	40.00	45.00	60.00	20.00	50.00	50.00	65.00	50.00	50.00
50 cu.yd. broken stone or gravel in place	1.00	3.00	2.20	3.00	2.00	3.00	2.00	2.50	2.50	2.00
36,100 sq.yd. waterproofing, one-ply	.33	.45	.50	.40	.35	.45	.35	.45	.50	.45

	A	B	C	D	E	F	G	H	I	J
100 sq.yd. waterproofing, two-ply	.57	.85	.50	.85	.60	.90	.70	.60	.75	.80
28,600 sq.yd. waterproofing, three-ply	.80	1.00	.90	1.20	.80	1.35	.90	.95	1.00	1.35
100 sq.yd. waterproofing, four-ply	1.04	1.40	.98	1.60	1.15	1.75	1.40	1.20	1.25	1.20
100 sq.yd. waterproofing, five-ply	2.28	1.80	1.20	1.90	1.40	2.25	1.70	1.50	1.50	1.50
100 sq.yd. waterproofing, six-ply	2.52	2.10	1.50	2.30	2.00	2.65	2.00	1.80	1.75	2.50
100 sq.yd. waterproofing, dry-ply	.19	.40	.30	.25	.35	.40	.35	.30	.50	.35
5400 cu.yd. brick in asphalt mastic	19.00	23.00	20.00	30.00	20.00	25.00	20.00	25.00	17.00	25.00
50 lin.ft. drain pipe, 12-in. vitrified	.70	.80	.80	.60	.75	1.20	1.00	.90	1.00	.90
50 lin.ft. drain pipe, 10-in. vitrified	.65	.60	.60	.50	.65	1.00	.80	.80	.88	.70
50 lin.ft. drain pipe, 8-in. vitrified	.60	.50	.40	.45	.50	.80	.70	.50	.75	.60
50 lin.ft. drain pipe, 6-in. vitrified	.55	.40	.30	.40	.45	.60	.60	.40	.65	.50
50 lin.ft. drain pipe, 4-in. vitrified	.50	.40	.20	.30	.40	.40	.60	.25	.55	.40
50 lin.ft. drain pipe, 6-in. c.i.	.85	.75	.80	1.00	1.00	2.50	1.00	1.20	2.00	.80
50 lin.ft. drain pipe, 4-in. c.i.	.55	.50	.60	.90	.50	1.60	.60	.75	1.50	1.00
50 lin.ft. drain pipe, 10-in. c.i.	1.25	1.50	1.60	2.20	2.50	3.00	1.70	2.00	4.00	.60
100 lin.ft. 3-in. c.i. pipe and fittings "extra heavy"	.75	.50	.60	.75	1.00	1.50	.60	.90	1.00	1.50
100 lin.ft. 4-in. c.i. pipe and fittings "extra heavy"	1.00	.75	.72	1.20	1.25	1.60	.70	1.00	1.50	.75
200 lin.ft. 6-in. c.i. pipe and fittings "extra heavy"	1.10	1.00	1.10	1.60	1.50	2.50	1.10	1.40	2.00	1.00
200 lin.ft. 8-in. c.i. pipe and fittings "extra heavy"	1.60	1.20	1.40	2.00	2.50	3.00	1.35	2.00	3.00	1.35
254,800 duct ft. tunnel ducts in place as regulated by section 407	.10	.11	.11	.12	.11½	.15	.10	.10	.10	2.00
1650 ton riveted steel, painted and erected	55.50	54.00	58.00	65.00	55.00	70.00	55.00	60.00	65.00	.11
4050 ton steel beams and shapes	4.00	54.00	55.00	55.00	55.00	60.00	51.00	55.00	55.00	63.00
410 ton steel rods and bars built in concrete	38.00	50.00	40.00	47.00	50.00	80.00	55.00	50.00	45.00	57.00
35 ton miscellaneous iron castings	50.00	70.00	55.00	75.00	60.00	100.00	60.00	65.00	60.00	50.00
10 ton miscellaneous iron furnishings	60.00	70.00	60.00	75.00	100.00	100.00	60.00	70.00	60.00	50.00
300 lb. special wire forms, in place	.09	.30	.12	.30	.10	.40	.15	.10	.25	50.00
9670 lin.ft. 1¼-in. seasoned oak or ash hand rail	.22	.30	.40	.30	.30	.35	.27	.40	.30	.10
9080 sq.ft. steel gratings for ventilation	1.22	1.50	1.30	1.60	1.50	1.10	1.50	1.50	1.50	.50
525 sq.ft. vault lights, in place	.90	1.50	1.30	1.30	1.25	1.10	1.00	1.40	1.50	1.50
3920 sq.yd. sidewalks restored	.90	1.50	1.00	3.00	1.35	1.48	2.25	1.75	1.60	1.50
1700 sq.yd. repavement of roadways, asphalt pavement	1.50	2.50	1.70	2.50	2.50	2.42	2.50	2.70	2.00	2.00
23,800 sq.yd. repavement of roadways, granite block	.42	1.00	.25	1.00	.30	.88	1.40	2.00	.70	2.50
12,100 sq.yd. repavement of roadways, Belgian block	.42	1.00	.25	.40	.30	.88	1.40	2.00	.70	1.75
100 lin.ft. new bluestone curb, in place	1.00	1.00	1.00	1.50	1.00	2.00	.80	.90	1.50	1.35
100 lin.ft. new 8-in. granite curb, in place	1.00	2.00	2.00	2.50	1.50	2.50	1.10	1.20	2.50	1.00
12,000 lin.ft. ¾-in. w.i. electric conduits	.14	.20	.16	.19	.15	.30	.12	.12	.30	2.00
600 lin.ft. 1¼-in. w.i. electric conduits	.26	.40	.31	.30	.25	.40	.27	.25	.40	.20
350 lin.ft. 2-in. w.i. electric conduits	.33	.50	.38	.45	.30	.50	.35	.30	.55	.30
3500 lin.ft. 1-in. w.i. electric conduits	.19	.30	.23	.25	.20	.30	.16	.18	.35	.40
1000 c.i. outlet boxes, in stations	.25	1.00	.70	1.00	1.00	1.50	1.00	1.00	.80	.25
6 c.i. pull boxes in stations	1.50	2.00	.70	1.25	1.50	1.50	1.50	2.00	5.00	1.00
260 lin.ft. 6-in. "extra heavy" c.i. pipe and fittings station	1.00	2.00	.90	1.60	1.50	2.50	1.10	1.50	2.00	5.00
200 lin.ft. 3-in. "extra heavy" c.i. pipe and fittings in station	.75	1.00	.40	.75	1.00	1.50	.60	.90	1.00	1.50
1850 lin.ft. sewer pipe, 12-in. vitrified	2.26	1.25	1.50	2.40	2.40	3.60	2.20	3.00	2.75	.75
3570 lin.ft. sewer pipe 15-in. vitrified	2.56	1.50	2.00	2.75	2.75	2.80	2.60	3.50	3.25	3.50
1150 lin.ft. sewer pipe, 18-in. vitrified	3.00	2.00	2.00	3.20	3.25	5.00	3.20	4.00	3.75	3.80
2110 lin.ft. sewer pipe, 20-in. vitrified	3.30	2.25	2.50	3.50	4.00	5.00	3.50	4.20	4.25	4.20
775 lin.ft. sewer pipe, 22-in. vitrified	3.70	2.50	3.00	3.75	4.50	5.00	3.75	4.60	4.75	4.53
440 lin.ft. sewer pipe, 24-in. vitrified	4.05	3.00	3.80	4.15	5.00	6.00	4.50	4.80	5.25	4.84
66 ton c.i. sewer pipe (straight)	38.00	50.00	45.00	50.00	40.00	50.00	38.00	45.00	35.00	5.17
11 ton c.i. sewer pipe (special)	55.00	75.00	65.00	100.00	75.00	100.00	70.00	75.00	75.00	50.00
50 lin.ft. egg-shaped brick or concrete sewer 3 ft., 6 in., x 2 ft. 4 in.	5.40	5.00	5.50	5.00	6.00	8.00	4.50	6.20	7.25	80.00
410 lin.ft. circular brick or concrete sewer, 4 ft., 0 in. diameter	5.70	10.00	6.50	6.00	6.00	9.00	5.50	7.00	8.25	5.50
610 lin.ft. circular brick or concrete sewer, 4 ft., 6 in. diameter	7.50	14.00	6.50	7.50	7.50	10.00	7.00	7.40	9.25	6.50
2625 lin.ft. circular brick or concrete sewer, 4 ft., 9 in. diameter	8.50	15.00	7.25	8.25	8.50	11.00	7.50	7.70	10.00	7.60
1010 lin.ft. circular brick or concrete sewer, 5 ft., 3 in. diameter	9.30	18.00	8.00	9.00	9.25	15.00	8.00	8.30	11.00	8.60
970 lin.ft. circular brick or concrete sewer, 6 ft., 3 in. diameter	11.00	20.00	9.50	11.00	11.00	16.00	9.00	9.50	12.50	11.30
2 14-in. special sluice gates with spigots	75.00	75.00	90.00	75.00	50.00	200.00	75.00	120.00	60.00	13.70
2 8-in. special sluice gates with spigots	60.00	50.00	35.00	50.00	25.00	100.00	30.00	80.00	50.00	75.00
2 20-in. special sluice gates with spigots	100.00	100.00	175.00	125.00	75.00	300.00	150.00	170.00	100.00	40.00
13,500 lin.ft. for support, etc., of electric (overhead trolley) R.R., 1 track	2.28	2.00	1.00	2.25	6.00	.50	3.00	5.00	3.00	100.00
150 lin.ft. water pipe, 4-in	.50	.30	.75	.35	.30	.60	.60	.65	.75	10.00
1650 lin.ft. water pipe, 6 in	.60	.50	1.10	.35	.40	.90	.80	.75	.90	.75
600 lin.ft. water pipe, 8-in	.75	.60	1.50	.50	.50	1.20	1.00	1.00	1.15	1.00
450 lin.ft. water pipe, 16 in	1.00	1.20	2.00	.85	.90	2.40	1.25	1.80	2.00	1.25
6200 lin.ft. water pipe, 20-in	1.00	1.50	3.00	1.20	.25	3.00	1.50	2.25	2.40	2.50
100 service connections for water pipes, all sizes	20.00	15.00	20.00	12.00	5.00	20.00	15.00	12.00	5.00	2.75
200 lin.ft. gas pipe, 3 in	.40	.30	.50	.35	.30	.50	.60	.65	.75	15.00
50 lin.ft. gas pipe, 4 in	.60	.30	.75	.35	.40	.60	.70	.75	.90	.50
800 lin.ft. gas pipe, 6 in	.75	.60	1.00	.35	.50	.90	.80	1.00	1.15	.75
1150 lin.ft. gas pipe, 8 in	.80	.80	1.25	.50	.60	1.20	1.00	1.20	1.40	1.00
900 lin.ft. gas pipe, 10 in	1.00	1.00	1.50	.60	.70	1.50	1.20	1.50	1.65	1.25
50 lin.ft. gas pipe, 12 in	1.25	1.25	1.75	.75	.75	1.80	1.50	1.75	2.00	1.50
8380 lin.ft. 6 in. w.i. by-passing pipe, upon or below street	1.20	1.25	2.00	1.20	1.25	3.00	3.00	2.00	3.50	1.75
4800 lin.ft. 8-in. w.i. by-passing pipe, upon or below street	1.45	2.00	2.75	1.50	2.00	3.00	3.25	2.30	5.00	3.00
350 lin.ft. 4-in. w.i. by-passing pipe, upon or below street	1.05	1.00	1.00	1.40	1.00	2.50	2.75	1.50	2.50	3.25
120 lin.ft. 12-in. w.i. by-passing pipe, on trestle	5.00	3.00	4.00	3.50	3.50	3.50	3.00	4.00	7.00	2.50
120 lin.ft. 6-in. w.i. by-passing pipe, on trestle	2.75	2.00	2.75	1.70	2.00	3.00	2.50	2.00	6.00	4.50
270 lin.ft. 18-in. w.i. by-passing pipe, on trestle	6.00	5.00	6.00	5.50	5.00	5.50	4.00	5.00	10.00	3.00
200 lin.ft. catenary for over 16-in. by-passing pipe	5.50	2.00	3.00	2.25	2.50	3.00	5.00	2.50	7.00	7.00
180 lin.ft. catenary for 16 in. and under by-passing pipe	5.50	2.00	3.00	2.25	2.50	3.00	5.00	2.00	5.00	4.50
250 lin.ft. service connections for gas pipes	10.00	10.00	20.00	6.25	5.00	20.00	12.00	12.00	10.00	2.25
75 tons new c.i. hub and spigot straight pipe	45.00	40.00	35.00	35.00	30.00	50.00	30.00	35.00	33.00	10.00
20 ton new c.i. hub and spigot special pipe	70.00	70.00	70.00	80.00	65.00	100.00	60.00	70.00	75.00	35.00
2300 duct ft. electric ducts and conduits, in place	.60	.50	.65	.40	.50	.75	.30	.50	.50	65.00
100 lin.ft. 2½ in. w.i. pipe, electric conduits	.80	1.00	.65	.35	.75	1.00	.40	.40	.50	.54
100 lin.ft. 3 in. w.i. pipe, electric conduits	.90	1.00	.65	.40	.75	1.00	.40	.45	.60	.65
100 lin.ft. 3½-in. w.i. pipe, electric conduits	1.00	1.00	.65	.50	.75	1.00	.40	.50	.70	.70
100 lin.ft. 4-in. w.i. pipe, electric conduits	1.10	1.00	.65	.75	.75	1.00	.40	.55	.80	.75
100 lin.ft. 4½-in. w.i. pipe, electric conduits	1.20	1.00	.65	1.00	.75	1.00	.40	.60	.90	.80
100 lin.ft. 2-in. Edison conduit	.60	1.00	.65	.35	.75	1.00	.40	.45	1.00	.85
100 lin.ft. 2½-in. Edison conduit	.80	1.00	.65	.35	.75	1.00	.40	.50	1.25	1.25
100 lin.ft. 3-in. Edison conduit	1.00	1.00	.65	.40	.75	1.00	.40	.60	1.50	1.50
20 service connections for electric ducts	15.00	20.00	10.00	10.00	25.00	25.00	15.00	15.00	25.00	1.75
300 duct ft. wooden electric ducts and conduits	.60	.70	.65	.25	.75	1.00	.30	.50	.50	15.00
Extended totals	$1,692,370	$1,849,286	$1,879,998	$1,953,097	$2,010,207	$2,110,057	$2,112,924	$2,150,242	$2,184,360	.60
										$2,811,475

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry.—This company has asked the Council for a franchise to double track its line on Sutton St., North Andover. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

New Jersey—Salem-Pennsgrove Ry.—This company has been incorporated to construct an electric railway to connect Salem and Pennsgrove, N. J. Arthur B. Smith, Isaac C. Smashey, H. G. Hart and James S. Wheeler are among the incorporators. Noted Aug. 5.

Pennsylvania—Dover, Millersburg & Western Ry.—This company plans to start work soon on the construction of its proposed railway to Millersburg, Penn. G. T. Prior, Sheffield, Penn., is interested.

Pennsylvania—A movement is being agitated for the construction of an electric railway from Washington to connect with the mining communities of Ellsworth, Cokeburg, Bentleyville and adjoining districts, about 11 miles. The proposed line would join the Pittsburgh Rys. line in Washington and the terminus of the Bentleyville-Charleroi St. Ry at Cokeburg.

✚**Pennsylvania**—Pennsylvania R.R.—This company has awarded the contract for the construction of a single-track extension of the Yellow Creek branch on the Conemaugh line, about four miles, to A. L. ANDERSON & BRO., Altoona.

North Carolina—Southern Ry.—This company has reached an agreement with the Aluminum Co. of America concerning the construction of the proposed railway from Bushnell, N. C. to Chilhowee, Tenn., about 25 miles. B. Herman, Washington, D. C., is Ch. Engr.

South Carolina—Seaboard Air Line Ry.—This company has sold $22,893,000 in bonds. Part of the proceeds will be used to extend the line from Charleston, S. C., to Savannah, Ga., a distance of 85 miles. W. D. Faucette, Norfolk, Va., is Ch. Engr.

South Carolina—Southern Ry.—This company will soon receive bids for double tracking its line from Greenville to Greer, S. C., about 26 miles. B. Herman, Washington, D. C., is Ch. Engr.

Alabama—Atlanta & St. Andrews Bay Ry.—According to press reports this company plans to construct a railway north from Dothan via Eufaula, Ala., to Columbus, Ga., about 85 miles. B. W. Steele, Dothan, Ala., is Gen. Mgr.

Tennessee—At a recent election the citizens of De Kalb County voted in favor of the question of issuing $150,000 in bonds. The proceeds will be used for the construction of an electric railway from Nashville to Smithville. Noted Aug. 5.

Kentucky—Louisville & Nashville R.R.—This company plans to extend its line from Harlan, Ky., into Virginia, to connect with its Middlesboro & Norton branch. W. H. Courtney, Louisville, is Ch. Engr.

Ohio—Cincinnati Traction Co.—A bond issue of $3000 has been authorized by the Council of Cincinnati to improve and extend Reading Road to allow the construction of this company's extension to Bond Hill. C. Burckmyer is Pur. Agt. Noted June 17.

Ohio—According to press reports a railway to be known as the Cleveland & Ohio Central Electric Ry. will be constructed from Cleveland to Wooster, Ohio. C. E. Sherman, Dept. of Engr., Ohio State University, is interested.

Indiana—Ft. Wayne, Decatur & Southern R.R.—This company has been incorporated to construct an interurban railway out of Decatur. M. Gerke, C. Oetting and C. Dirkson are the incorporators.

Illinois—Rapid Transit Co. of Illinois—This company has been incorporated to construct a system of interurban lines out of East St. Louis southeast via Chester, Murphysboro and Carbondale and northeast through the coal fields. J. Vannahme, D. P. Roberts, C. B. Vonnahme and M. Harned, East St. Louis, and L. T. Holltman, Collensville, are the incorporators.

Michigan—Pere Marquette Ry. Co.—This company plans to construct a belt line for the western and northwestern section of Detroit, about three miles long.

Minnesota—Twin City Rapid Transit Co.—This company plans to construct a double track line from the Snelling-Minnehaha line to the new motor speedway, about 1¼ miles. J. J. Canfield, Minneapolis, is Gen. Supt.

Kansas—According to press reports a company is being organized to construct an interurban railway from Salina, Kan., to Fairbury, Neb., via Concordia and Belleville, Kan. The proposed line will connect with the Arkansas Valley Interurban Ry. at Salina.

Montana—Helena & Southern Ry.—This company has been incorporated to construct a railway from Helena to Yellowstone Park. E. A. Tennis, Salina, Kan., is interested.

Missouri—United Rys.—This company has been granted a new 28-year franchise by the Council of Webster Groves and plans to improve its line on Lockwood Ave. from Summit Ave. to Rock Hill Rd., about 1 mile. Estimated cost, $80,000. Robert McCulloch, St. Louis, is Pres., Gen. Mgr. and Pur. Agt.

Arkansas—According to press reports an electric railway will be constructed from Nettleton to Jonesboro. Franz Weisbord, Indianapolis, Ind., is interested.

Oklahoma—Press reports state that a company is being organized at Blackwell, Okla., to construct a railway out of Blackwell to connect with the St. Louis & San Francisco Ry. at Peckham and with the Santa Fe System at Braman.

Oklahoma—Clinton, Oklahoma & Western Ry.—Surveys are being made by this company for a railway from Clinton to Chickasha. Guy V. McClure, Oklahoma City, is Ch. Engr. Noted July 23.

Oklahoma—Ft. Smith & Western R.R.—Surveys are being made by this company for the extension of its line from Warwick to Oklahoma City, Okla. B. F. Beckman, Ft. Smith, is Ch. Engr.

Oklahoma—Frisco Lines—This company has secured a right-of-way for the construction of a railway from Depew to Drumright, Okla., via the Cushing oil fields, a distance of 20 miles.

Washington—W. D. Peters, Bremerton, has petitioned the Council of Bremerton and Charleston for a franchise to construct an electric railway in both towns.

California—Castro Point & Terminal Ry.—This company will issue $89,000 in bonds. Part of the proceeds will be used for the construction of a railway from San Pablo Quarry to connect with the Richmond Belt Ry.

California—Pacific Electric Ry.—Surveys are being made by this company for a line between Los Angeles and Corona. J. McMillan, Los Angeles, is Gen. Mgr.

California—South San Francisco R.R. & Power Co.—This company has applied for a franchise to construct and operate a single-track or double-track standard gage railway in South San Francisco. W. J. Martin, South San Francisco, is Pres.

LIGHT, HEAT AND POWER

✚**Manchester, N. H.**—The Manchester Traction, Light & Power Co. has awarded the contract for the construction of a concrete dam and spillway on the Piscataquog River to the H. WALES LINE CO., Meriden, Conn. It will replace a wooden structure, and will be 25 ft. high with 35-ft. abutments and a spillway 192 ft. long.

Readsboro, Vt.—It is reported that the Deerfield River Power Co. will develop 4000 hp. at this point, and will install electrical machinery for the manufacture of paper.

Chicopee, Mass.—It is reported that the Fisk Rubber Co., Chicopee, will build a five-story, 110x600-ft. mill, to be equipped with electrically-driven machinery. The total cost will be about $300,000.

Sterling, Mass.—The City of Sterling contemplates the extension of its municipal electric-lighting and power service to Lake Washacum. The cost of the work is estimated at $11,000. H. W. Rugg is Supt., Mgr. and Cont. Agt. of the municipal system.

✚**Worcester, Mass.**—The Worcester Electric Light Co. has awarded the contract for the construction of a two-story brick, 81x104-ft. addition to its power house on Webster St., to H. R. KENT & CO., 141 Broadway ,New York, N. Y. The estimated cost is $50,000. Noted June 3.

★**Albany, N. Y.**—(Official)—Bids will be received until noon, Sept. 8, by the Trustee of Public Buildings, Executive Chamber, Capitol, for alterations and additions to the State House, plumbing and drainage for the Court of Appeals. Lewis F. Pilcher is State Arch.

Attica, N. Y.—It is reported that the Attica Water, Gas & Electric Co. will soon purchase one 75-kw., two-phase, 60-cycle, 1100-volt generator with exciter and ammeters, voltmeters and switches. R. W. Harris is Mgr.

✚**East Syracuse, N. Y.**—The Board of Education has awarded the contract for new heating and ventilating systems for the local schools to the LEAVERY HEATING & VENTILATING Co., Syracuse, at $12,285. Ten bids were received for the work.

★**Letchworth Village, N. Y.**—(Thiells post office)—(Official)—Bids will be received until noon, Sept. 7, by Frank A. Vanderlip, Pres., Bd. of Mgrs., Letchworth Village, Room 215, 55 Wall St., New York, N. Y., for heating, plumbing, drainage, electrical work, etc., in attendants' home, laundry building, and service building; for electric service connections for Cottages A, B, C and D at Letchworth Village, Thiells. Franklin B. Kirkbride, 55 Wall St., New York, is Secy., Mgrs. of Letchworth Village. Lewis F. Pilcher, Albany, is State Arch.

✚**Rochester, N. Y.**—The Managers of St. Mary's Hospital have awarded the contract for the construction of a new boiler house and engine room to the GORSLINE & SWAN CONSTRUCTION CO., Rochester. The building will be 44x113-ft., 37 ft. high, with a 125-ft. chimney. Gordon & Madden is Arch.

Burlington, N. J.—The City Council has engaged W. E. Temple, Elec. Engr., Philadelphia, Penn., to prepare plans for changing the motive power of the drainage system from steam to electricity. It will cost from $6000 to $7000.

Newark, N. J.—The Standard Metal Mfg. Co., 237 Chestnut St., will build an addition to the boiler house of its plant.

Duncannon, Penn.—A company has been organized to construct a dam across the Juniata River about four miles above Duncannon. It will be of stone and concrete, with a head of 15 ft., and is expected to develop from 2000 to 3000 hp. of energy which will be transmitted to Duncannon to operate a mill for the manufacture of felt roofing paper and an asphalt refinery. Frank M. Waring, Tyrone, and R. J. Redick, York, are interested in the company which will be capitalized at $500,000.

Hazard, Ky.—Press reports state that the Kentucky River Power Co. will establish a hydro-electric plant at Hazard to cost about $300,000.

Henderson, Ky.—The City Council is considering the construction of a new power house for the municipal electric-light plant. L. P. Hite is Supt. of the municipal plant.

✚Cleveland Heights, Ohio—(Warrensville post office)—(Official)—The Board of Education has awarded the contract for heating and ventilating equipment of a grade school to the CHAPPELL-WARREN CO., Cleveland, at $7850. See item under "Buildings."

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Sept. 10, by A. F. Shepherd, Pres., Ohio Bd. of Administration, Oak and Ninth St., Columbus, for nine automatic side-feed, self-cleaning stokers for the Institution for Feeble-Minded, Columbus, and for two 400-hp. water tube boilers and two 400-hp. stokers at the Ohio Hospital for Epileptics, Gallipolis, Ohio. H. S. Riddle, Columbus, is Consult. Engr., Ohio Bd. of Administration.

East Liverpool, Ohio—Bonds will be issued for the construction of a municipal electric-light plant. The estimated cost is $60,000. J. C. Kelley is City Engr.

Painesville, Ohio—(Official)—Bids will be received until noon, Aug. 31, by Martin A. Tuttle, Dir. of Pub. Ser., for one surface condenser and equipment for the municipal electric light department of the City of Painesville. O. W. Kile is Secy. of the Electric Light Dept. H. Whitford Jones & Co., 1303 Citizens' Bldg., Cleveland, is Consult. Engr.

✚Troy, Ohio—The Board of Commissioners of Miami County has awarded the contract for the construction of an addition to the county power plant to GRIMES & THOMPSON, Piqua, at $4948. It will be one-story, 38x61 ft.

Uhrichsville, Ohio—The City Council has authorized the City Clerk and City Solicitor to investigate the feasibility of establishing a municipal electric-light plant. Should the report be favorable, the question of a bond issue will be submitted to the voters at the regular November election.

Galena, Ill.—The Interstate Light & Power Co. plans to add new equipment to the Galena plant within the next two or three months. A new 3500-hp. turbine will be installed with additional boilers and pumps. The automatic stokers will be improved. F. H. Rickemann is Mgr.

Peoria, Ill.—The committee appointed to investigate the feasibility of establishing a municipal electric-plant has submitted a report estimating the cost at $38,389. The committee also recommends submitting the question to the voters. E. D. Jeffries is City Engr.

Dane, Wis.—Preparations are being made for the installation of a municipal electric-light plant in Dane. Vaughn, Meyer & Sweet, Majestic Bldg., Milwaukee, is Consult. Engr.

Solon, Iowa—Press reports state that a franchise will be granted to the Iowa Ry. & Light Co. for the installation of an electric-lighting system in Solon. A transmission line will probably be built from Mt. Vernon to supply energy. This line will also serve farms along the route. S. C. Dows, Cedar Rapids, is Pur. Agt.

Virginia, Minn.—(Official)—Bids will be received until 8 p.m., Sept. 6, by the Water and Light Commission for a mixed pressure steam turbine with exciters, condensers and switchboard. Alternate bids will be received for either a 1000-kw. or a 1500-kw. turbine and alternator. Max Lewis is Secy. of the Comn. C. T. Harding is Engr.

✚Warren, Minn.—It is reported that the contract for additions and improvements to the municipal electric-light plant has been awarded to J. G. ROBERTSON, 2542 University Ave., St. Paul. Bids were opened July 22. Noted July 1 and 15.

Broken Bow, Neb.—(Official)—Bids will be received until 6 p.m., Sept. 2, by the Mayor and City Council for the construction of a complete electric-light plant and for the construction of new wells for an extension to the water-works system. The engineer's estimate for the entire work is $17,000. R. E. Thompson is City Clk.

Grand Island, Neb.—(Official)—The Grand Island Electric Co. is building a hydro-electric plant on the Loup River at a cost of $750,000. It will develop 4500 hp. The L. E. Myers Co., Chicago, Ill., is in charge of the construction work. Erroneously noted June 17 as about to build a hydro-electric plant on the Platte River.

Hastings, Neb.—The city will soon purchase for the municipal electric-light plant, a 750-kw. steam turbo-generator and condensing plant and steam-flow integrating meters; also an electrically-driven, deep-well centrifugal pump, with a capacity of 1000 gal. per minute. H. H. Cloyd is Mgr.

Hysham, Mont.—It is reported that the Town Council has engaged the Billings Engineering & Contracting Co., Billings, to prepare plans for a municipal electric-light plant and water-works system.

Pickering, Mo.—At a special election held July 27 the citizens voted in favor of issuing bonds for the purpose of installing a municipal electric-light plant.

Adamson, Okla.—It is reported that bids will be received until Sept. 20 by the City Council for the construction of a municipal electric-light plant.

Colorado Springs, Colo.—It is reported that the City Commissioners have decided not to consider the establishment of a municipal electric-light and power plant at the present time. Tentative estimates place the cost at about $1,000,000.

Dexter, N. M.—It is reported that the City Council contemplates the installation of a municipal electric-light and power plant.

Olympia, Wash.—Bids will be received until noon, Aug. 31, by E. S. Emigh, Secy., State Bd. of Control, Olympia, for the installation of a 300-hp. horizontal tube boiler equipped with automatic underfeed stokers in the power plant of the Eastern State Hospital at Medical Lake.

Winnipeg, Man.—It is reported that plans have been prepared by W. P. Brereton, City Engr., for building an addition to the heating and power plant of the municipal hospital.

BRIDGES

Woonsocket, R. I.—(Official)—Competitive plans will be received until 8 p.m., Sept. 1, by the Board of Aldermen for two bridges on Hamlet Ave. and one on Fairmount St., Woonsocket. George H. Emmott is Chn., Bd. of Aldermen. Frank H. Mills is City Engr. Noted May 6.

Hartford, Conn.—(Official)—Bids will be received until 11 a.m., Aug. 31, by the Board of Contract and Supply for the construction of a three-span reinforced-concrete bridge over the Park River at Capitol Ave. It will be 160 ft. long and 55 ft. wide. Joseph Buths is Secy., Bd. of Contract and Supply.

Binghamton, N. Y.—The City Council has authorized the issue of bonds for the construction of six bridges. The estimated cost is $30,000. John A. Giles is City Engr.

★Olean, N. Y.—(Official)—Bids will be received until 7 p.m., Sept. 7, by the Common Council for the construction of a highway bridge over the Allegany River at 11th St., Olean. Bids will be accepted for a concrete bridge of three 140-ft. spans, or for a steel structure of two 200-ft. spans. A. G. Harvey is Supt. of St.

✚Gillette, N. J.—The Board of Chosen Freeholders of Morris County, Morristown, has awarded the contract for the construction of a bridge over the Passaic River at Gillette to JAMES J. HICKEY, at $7333.

Newark, N. J.—The Board of Chosen Freeholders of Essex County has voted to make repairs and improvements to the Jackson St. Bridge. The estimated cost is $20,000. Frederick A. Reimer is County Engr.

Trenton, N. J.—Bids will be received until 2:30 p.m., Aug. 26, by John J. Powers, Dir., Bd. of Chosen Freeholders of Mercer County, for the construction of a reinforced-concrete and stone arch over Sanhican Creek at Willow St., Trenton. Theodore Tobish is County Engr.

✚Trenton, N. J.—(Official)—The Board of Chosen Freeholders of Mercer County has awarded the contract for a bridge over Doctor's Creek to BROWN & MACKENTHUM, Windsor, N. J., at $6149; contracts for a bridge over Beedens Brook and one over Assunpink Creek were awarded to the GINDER CONSTRUCTION CO., Trenton, at $2019 and $1408 respectively. Noted July 29.

Ebensburg, Penn.—Bids will be received until Aug. 30 by the Commissioners of Cambria County for the construction of a 36-ft. concrete girder bridge over Chest Creek on the Loretto and Carrolltown Rd., between Allegheny and East Carroll Townships, and for a 40-ft. concrete arch over Yellow Run in Adams Township. George M. Wertz is County Controller.

★Media, Penn.—(Official)—Bids will be received until 10 a.m., Sept. 9, by the Commissioners of Delaware County for the construction of a reinforced-concrete bridge on Glenolden Ave., over Muckinapatus Creek, Glenolden Borough and Darby Township. J. Miller Quinn is Dep. County Controller.

Norristown, Penn.—(Official)—Bids will be received until 11 a.m., Aug. 30, by the Commissioners of Montgomery County for repairing the following bridges: Bridge over Wissahickon Creek in Upper Gwynedd Township; over Humphreys Run in Lower Gwynedd Township; over Towamensing Creek in Upper Gwynedd Township; creosoted block floor on the Royersford and Spring City Bridge over the Schuylkill River; three concrete piers to be placed under the bridge at Walnut Hill Station, over Pennypack Creek in Abington Township. John N. Jacobs is County Controller.

Sunbury, Penn.—Bids will be received until Aug. 27 by Aaron Baker, Controller of Northumberland County, for the construction of a bridge over Mahanoy Creek in East Cameron Township, known as Hornbergers Bridge.

Courtland, Va.—(Official)—Bids will be received until noon, Sept. 3, by the Clerk of the Circuit Court of Southampton County for the construction of a 465-ft. steel bridge with concrete and pile substructure, over the Nottaway River. G. P. Coleman, Richmond, is State Highway Comr.

Farmville, Va.—(Official)—Bids will be received until noon, Aug. 31, by the Clerk of the Circuit Court of Prince Edward County for the construction of a steel bridge over Falling Creek. G. P. Coleman, Richmond, is State Highway Comr.

Richmond, Va.—See item under "Miscellaneous."

Berkeley Springs, W. Va.—Bids will be received until Sept. 11 by M. S. Harmison, Clk. of County Court of Morgan County, for the construction of a concrete bridge across Sleepy Creek. Alternate bids will be accepted for a 90-ft. single span or two spans of 50 ft. each, with a 14-ft. roadway.

Charleston, W. Va.—Bids will be received until Aug. 30 by M. P. Malcolm, Pres. Kanawha County Court, for the construction of two bridges in Cabin Creek District, one over Morris Creek and the other over Upper Creek. F. G. Burdett is County Road Engr. Noted Aug. 12.

Clarksburg, W. Va.—(Official)—Bids will be received until noon, Aug. 28, by the Harrison County Court for the construction of abutments and piers for a steel bridge across the West Fork River at Zeising. C. C. Fittro is County Road Engr.

Jefferson, N. C.—The State Highway Engineer is preparing plans for the Commissioners of Ashe County for a 360-ft. steel bridge with 14-ft. roadway. The estimated cost is $6000. W. A. Scott is Chn., County Comrs.

Titusville, Fla.—It is reported that the Commissioners of Brevard County have decided to build a concrete pile bridge across the Indian River estimated to cost $100,000. There will be a 55-ft. draw span. C. M. Rogers, Daytona, is Consult. Engr.

Columbus, Miss.—Bids will be received until Sept. 6 by the Board of Supervisors of Lowndes County for three steel bridges, one 40-, one 80- and one 100-ft. span, and for one 50-ft. concrete arch. G. E. Hauser, Jr., is County Engr.

✚St. Francisville, La.—(Official)—The Police Juries of East and West Feliciana Parishes have awarded the contract for a bridge over Thompson Creek on the line between the two parishes to AUSTIN BROS., Dallas, Tex. The estimated cost is $24,000. Noted Aug. 12.

Covington, Ky.—The City Commissioners have approved plans for a bridge across the Licking River to carry the emergency water main from Campbell County to Latonia where it will connect with the Covington system. The bridge will be 725 ft. long and 16 ft. wide, to be later increased to 24 ft. The estimated cost is $47,375. The cost of submerging two mains will be about $40,000. The bridge will not be built until necessary legislation can be obtained from the General Assembly which convenes next January. Noted June 10.

✚Maysville, Ky.—The Fiscal Court of Mason County has awarded the contract for the construction of three concrete bridges to E. K. NEWELL & CO., Maysville.

Nicholasville, Ky.—(Official)—Bids will be received until noon, Sept. 7, by the Fiscal Court of Jessamine County for the construction of a reinforced-concrete bridge across Hickman Creek on the Chrisman Mill Rd. C. S. Woodward is Road Engr. of Jessamine County.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 17, by the Board of Commissioners of Hamilton County for the construction of two concrete bridges on the New Haven and Venice (Willey) Rd. Albert Reinhardt is Clk., Bd. of Comrs.

Cincinnati, Ohio—It is reported that the County Engineer is preparing plans for the construction of four bridges to be located at Miamisburg, West Carrollton, Union and Shoups Mills respectively. The estimated cost is approximately $150,000.

Hamilton, Ohio—(Official)—Bids will be received until 10 a.m., Sept. 13, by W. W. Crawford, Audr. of Butler County, for the construction of a bridge over the Miami River at Chestnut St., Hamilton. Alternate bids may be submitted on either steel or concrete construction. F. M. Hammerle is County Surv.

Malvern, Ohio—Bids will be received until Sept. 11 by the Commissioners of Carroll County, Carrollton, for repairs to the Main St. Bridge in Malvern.

Marion, Ohio—Bids will be received until Sept. 8 by the Board of Commissioners of Marion County for a 160-ft. steel bridge known as the Clark Bridge, over the Scioto River in Section No. 19, Montgomery Township. V. Perle Garfield is Clk. of Bd.

Zanesville, Ohio—(Official)—Bids will be received until 11 a.m., Sept. 7, by the Board of Commissioners of Muskingum County for the construction of the superstructure of the Swingle Bridge over Turkey Run in Brush Creek Township. Fred C. Werner is Clk. of County Comrs.

Brazil, Ind.—(Official)—Bids will be received until 10:30 a.m., Sept. 7, by the Board of Commissioners of Clay County for the construction and repair of county bridges. George A. Sheehan is County Engr. William O. Graeser is County Audr. Noted July 8.

Covington, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 7, by the Board of Commissioners of Fountain County for the construction of two bridges, the Ed Martin Bridge in Troy Township, and the County Line Bridge in Richland Township and Montgomery County. Himan W. Newlin is County Audr.

✚Lebanon, Ind.—(Official)—The Commissioners of Boone County have awarded contracts for bridge construction to the following: J. A. SWOPE, Lebanon, three bridges; SHEATS & ABERGAST, Frankfort, Ind., two bridges; CENTRAL STATES BRIDGE CO., Indianapolis, one bridge. Noted July 22.

South Bend, Ind.—Press reports state that the Commissioners of St. Joseph County plan the construction of a $40,000 bridge on the Lincoln Highway in the county.

✚Flint, Mich.—The contract for the construction of the West Court St. Viaduct has been awarded to the ILLINOIS BRIDGE CO., Chicago, Ill., at $12,977.

Joliet, Ill.—It is reported that the Chicago, Ottawa & Peoria Ry. contemplates the construction of two new bridges, one to have four 43-ft. spans and the other, two spans of 35 ft. each. F. E. Fisher, Joliet, is Gen. Supt.

✚Watseka, Ill.—(Official)—The Highway Superintendent of Iroquois County has awarded the contract for the construction of two reinforced-concrete bridges in Pigeon Grove Township to JOSEPH KLEIN, Freeburg, Ill., at $5700. Other bidders were: Bresee Mfg. Co., Mattoon, $6400; Walesby & Gammie, Chicago, $5890; Fred A. Smith Lumber Co., Cissna Park, Ill., $5878. The engineer's estimate was $6575. Noted Aug. 12.

Appleton, Wis.—The City Council plans the construction of a 105-ft. concrete bridge over the South Channel of the Fox River. It will have three spans. A. C. Remley is City Engr.

✚Burlington, Iowa—The City Council has awarded the contract for the fabrication and erection of a 2555-ft. bridge over the Mississippi River to the WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis. It will cost approximately $200,000. Noted June 24 and July 22.

Mankato, Minn.—(Official)—The Commissioners of Blue Earth County have postponed the award of contract for a 120-ft. concrete bridge in Shelby Township until the latter part of September. Bids were advertised to be received on Aug. 18. C. L. Kennedy is County Audr. Noted Aug. 12.

Mankato, Kan.—(Official)—Bids will be received until noon, Sept. 14, by the Commissioners of Jewell County for the construction and repair of a number of bridges in various townships of the country. Plans on file with the County Clerk, Mankato, and with the State Engineer, Manhattan.

Ogden, Kan.—Bids will be received until Sept. 1 by the Commissioners of Riley County, Manhattan, for the repair of the bridge over the Kansas River at Ogden. The estimated cost is $10,000.

Alma, Neb.—Bids will be received until noon, Aug. 31, by A. B. Shoemaker, Clk. of Harlan County, for bridge construction in the county for a period of one year.

✚Chinook, Mont.—The Board of Commissioners of Blaine County has awarded the contract for the construction of a steel bridge over the Milk River to O. E. PEPPARD, Missoula, at $6600.

Dillon, Mont.—Bids will be received until 11 a.m., Sept. 10, by Jay S. Baker, Clk. of Beaverhead County, for the construction of a 170-ft. steel bridge across the Big Hole River, and for a 42-ft. steel bridge across the slough near Browne's Station.

Benjamin, Tex.—The voters of Knox County have approved the issue of $50,000 in bonds, the proceeds of which will be used to build two bridges over the Brazos River; one at Brock Crossing, and the other at Coffman Crossing.

Kingfisher, Okla.—(Official)—The Commissioners of Kingfisher County have postponed indefinitely the awarding of contracts for the construction of 17 bridges in the county. Bids were advertised for Aug. 16. William G. Newer, Kingfisher, is County Clk. Noted Aug. 12.

Lehigh, Okla.—(Official)—The award of contracts for the construction of seven steel bridges in Coal County, bids for which were advertised until Aug. 14, has been deferred to a later date. Richard Bunch, Coalgate, Okla., is County Clk. Noted Aug. 5.

✚Sulphur, Okla.—The Commissioners of Murray County have awarded a contract for the construction of two bridges over the Washita River to the WESTERN BRIDGE CO., Sherman, Tex.

Denver, Colo.—It is reported that plans are being prepared for a new bridge over the Platte River near Woolhurst, about five miles from Denver. The estimated cost is $6000. T. J. Ehrhart, Denver, is State Highway Comr.

Aberdeen, Wash.—(Official)—The West Toll Bridge over the Chehalis River will be rebuilt at once without the delay of calling for bids. The work includes the construction of a new 260-ft. span and repairing the approaches. The estimated cost is $25,000. C. E. Fowler, Central Bldg., Seattle, is Engr.-in-Charge. P. F. Clark is City Clk. Noted Aug. 12.

✚Olympia, Wash.—(Official)—Bids were received Aug. 9 by the State Highway Board for the construction of the Skokomish River Bridge on the Olympic Highway in Mason County, from the following: Washington Construction Co., Seattle, $12,562; J. R. Wood, Seattle, $11,831; Quigg Construction Co., Seattle, $13,600; A. H. Cox & Co., Seattle, $12,457; Minneapolis Steel & Machinery Co., Spokane, $12,830; R. E. Mieth, Portland, Ore., $11,778; YELVERTON & WOLF, Olympia, $11,253 (awarded contract); Portland Bridge & Iron Co., Portland, Ore., $13,650; Coast Bridge Co., Portland, Ore., $14,305; Beer's Building Co., Portland, Ore., $11,777; Weymouth Construction Co., Seattle, $13,756; Howard S. Wright, Everett, $12,940; George H. Griffin, Inc., Seattle, $12,308. Noted July 29.

✚Walla Walla, Wash.—The Commissioners of Walla Walla County have awarded a contract for the construction of three steel bridges to C. L. GRAVES, Spokane, at $8434.

Grants Pass, Ore.—The County Court of Josephine County has rejected all bids for a steel bridge over Sucker Creek as being too high. New bids will be asked at once.

✚Portland, Ore.—It is reported that the Park Commission has awarded the contract for the construction of the Back Bay Blvd. Bridge to FORGIONE & ROMANO, Fidelity Bldg., Portland, at $21,450.

✚Fresno, Calif.—The Board of Supervisors of Fresno County has awarded the contract for the construction of a reinforced-concrete bridge on the Elkhorn grade to J. E. MITCHELL, Fresno, at $11,974.

✚Martinez, Calif.—The Board of Supervisors of Contra Costa County has awarded a contract for the construction of a bridge over Pacheco Slough on the Martinez-Bay Point Rd., to the HEALY-TIBBETTS CO., San Francisco, at $6932, and for placing 1100 ft. of trestle piling over Pacheco Slough to the HYDE-HARJESS CO., Stockton, at $8778.

✚Modesto, Calif.—The Board of Supervisors of Stanislaus County has awarded a contract for the construction of a bridge across the Tuolumne River at Roberts Ferry to the ROSS CONSTRUCTION CO., Sacramento, at $29.870. Noted July 29.

✚Oroville, Calif.—The Board of Supervisors of Butte County has awarded a contract for the construction of a concrete bridge over Butte Creek, on the State Highway, to EDWARD SHARP, Chico, at $11,723.

✚San Diego, Calif.—The San Diego & Arizona Ry. Co. has awarded the contract for the erection of a steel bridge across Campo Creek at the end of Tunnel No. 4 to the CHARLES W. CORBALEY CO., I. W. Hellman Bldg., Los Angeles; the contract for furnishing the steel was awarded to the LLEWELLYN IRON WORKS, Los Angeles.

✚San Luis Obispo, Calif.—The Board of Supervisors of San Luis Obispo County has awarded the contract for the construction of a reinforced-concrete bridge over San Luis Obispo Creek to ALLISON & COLE, San Francisco, at $8199.

✚Santa Rosa, Calif.—(Official)—The Board of Supervisors of Sonoma County has awarded contracts for the construction of reinforced-concrete bridges to the BAILEY-COMSTOCK CO., Santa Rosa, at $1542 for a bridge on the Alexander Valley Rd., and to the GILDERSLEEVE CONTRACTING CO., Napa, at $5800 for a bridge on the Petaluma Rd. Noted Aug. 5.

Yreka, Calif.—The Board of Supervisors of Siskiyou County contemplates the construction of a bridge at the mouth of the Scott River. The estimated cost is $10,000.

Halifax, N. S.—Bids will be received until noon, Aug. 28, by the Road Commissioner, Halifax, for the construction of 217 culverts of permanent material on several roads in the County of Antigonish.

Halifax, N. S.—Bids will be received until noon, Sept. 4, by the Road Commissioner, Halifax, for the construction of 171 culverts of permanent material on various roads in several counties.

Mt. Pleasant, Ont.—The Works Committee of the City Council, Toronto, has approved plans for the construction of a bridge at Mt. Pleasant. Bids will be asked as soon as the plans are approved by the Railway Board. It will be of either plain or reinforced-concrete construction.

✚**Swan River, Man.**—The Provincial Highway Commissioner has awarded contracts for the construction of two reinforced-concrete bridges over the Swan River to S. C. HILL & CO., Winnipeg, for the substructures, and to the ALGONA STEEL BRIDGE CO. for the steelwork. The estimated cost of the two bridges is $15,000.

WATER SUPPLY—IRRIGATION

✚**Pittsfield, Mass.**—The General Electric Co. has awarded the contract for the construction of a reservoir at Perinne Ave. to GILBERT H. HARRIES, Boston. The estimated cost is $100,000. Noted July 29.

✚★**Hartford, Conn.**—(Official)—The contract has been awarded to C. W. BLAKESLEE & SON, New Haven, at $357,767, by the Board of Water Commissioners for constructing under Contract No. 10 a compensating reservoir. Noted Aug 12.

Attica, N. Y.—The Village Trustees contemplate constructing a water system, the estimated cost of which is $125,000.

Centerville, N. Y.—(Official)—Bids were received Aug. 17 for the construction of a water system as follows: Abner M. Harper, Inc., $10,630; Partridge & Burke, $25,541; P. L. Braunworth, $15,606; R. F. Relly, $16,223. Noted July 22 and 29.

✚**New York, N. Y.**—(Official)—The SULLIVAN MACHINE CO., 123 South Michigan Ave., Chicago, Ill., at $12,145, has been awarded the contract for making six borings at the Hudson siphon of the Catskill Aqueduct in Fishkill. Noted July 22 and Aug. 19.

★**Watervliet, N. Y.**—(Official)—The Lincoln, Steele, Fleming Co., New York, at $424,670, was low bidder for constructing a water system. Solomon, Norcross & Keis is Engr. Noted July 22.

Yonkers, N. Y.—The city will expend about $3,000,000 for the construction of a new water system and for the improvement of the old one. Noted Aug. 21, 1913 and Nov. 26.

Butler, N. J.—The State Water Supply Commission has granted the Butler Water Co. permission to extend its water system to Lake Keiko. Noted June 17.

✚**Gloucester City, N. J.**—The contract for furnishing and installing equipment for the water-works has been awarded to L. T. EDWARDS, Philadelphia, Penn., at $21,218. A. Blatchley, Drexel Bldg., Philadelphia, Penn., is Engr. Noted Aug. 19.

Newark, N. J.—George W. Knight has been retained by the City Council to prepare plans for the construction of a water supply system at the almshouse at Ivy Hill. The estimated cost is about $5000.

West Orange, N. J.—At an election held Aug. 16 the citizens voted in favor of purchasing the water system of the West Orange Water Co. William B. Fuller is Consult. Engr. Noted July 15 and Aug. 12.

Wilmington, Del.—Press reports state that the city plans to construct another reservoir beside the present reservoir on the Concord Turnpike.

Altavista, Va.—The citizens contemplate constructing a water system.

Crewe, Va.—Plans have been prepared by Anderson & Christie, Commercial Bldg., Charlotte, N. C., and an election will soon be held to vote on the question of issuing $80,000 in bonds, the proceeds of which will be used for the construction of a water system. E. C. Bradshow is Comr. of Pub. Wks.

Fairmont, W. Va.—The city plans to install a new water and sewerage system. Ira L. Smith is Comr., Water Works and Sewerage.

Cartersville, Ga.—(Official)—Bonds for $5000 have been voted by the citizens, the proceeds of which will be used for making extensions to the water mains. W. W. Daniel is City Engr. Noted July 22.

Macon, Ga.—The Water Commissioners are considering the construction of a reservoir on Ft. Hawkins, East Macon.

Bradentown, Fla.—The citizens voted against the question of issuing $10,000 in bonds, the proceeds of which was to have been used for the extension of the water system. Noted July 22.

Amite, La.—Surveys are being made for the construction of a water and sewerage system. M. L. Culley, Jackson, Miss., and X. Kramer, Magnolia, Miss., are Engrs. Noted July 22.

De Ridder, La.—Bonds for $24,000 have been sold, the proceeds of which will be used for the construction of a municipal water system.

Lenoir City, Tenn.—An election will be held to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the completion of the water system.

Belleville, Ohio—(Official)—Bids will be received until Sept. 14 by Glenn L. Shaffer, Village Clk., for the construction of a water system. The work will include deep well pumps, gas engines, five miles of distributing mains and a storage reservoir. The Smith & Boulay Co., 320 The Nasby, Toledo, is Engr.

✚**Columbus, Ohio**—The contract has been awarded to the COLUMBUS SUPPLY CO., for furnishing 72,000 lb. of lead pipe at $5.28½ per cwt.

✚**Coshocton, Ohio**—The contract for the construction of a 3,000,000-gal. reservoir has been awarded to KISSNER & SONS, at $35,652. Noted Mar. 11 and 25.

Farmersville, Ohio—(Official)—Bids will be received until Sept. 1 by A. F. Gilbert, Village Clk., for constructing a water system. Noted June 10 and Aug. 12.

Silverton, Ohio—Bids will be received until Aug. 28 by A. A. Sprague, Village Clk., for constructing 6-in. water mains in portions of various streets.

✚**South Charleston, Ohio**—The contract has been awarded to ARTHUR GEISLER, Dayton, at $35,000, for constructing a water system. Noted June 3.

✚**Wellington, Ohio**—(Official)—The contract for the construction of a water system has been awarded to GANGLA & SHANNON, Akron. The estimated cost is $35,000. The W. J. Sherman Co., Toledo, is Engr. Noted July 15 and Aug. 19.

✚**West Park, Ohio**—(Official)—The contract for the extension and improvement of the water system has been awarded to SEATONWOOD & MAYER, Cincinnati, at $10,460. Other bidders were: Otis & Co., Cleveland, $10,213; Stacy & Brown, Toledo, $10,173; Tillstron & Wolcott Co., Cleveland, $10,927. Noted July 22.

Xenia, Ohio—The State Board of Health has approved the plans of the Xenia Water Co. for the improvement of the water system. Noted May 13.

Miller, Ind.—The citizens have voted in favor of issuing bonds for $14,000, the proceeds of which will be used for the construction of a water system. Noted Aug. 5.

✚**Christopher, Ill.**—The contract has been awarded to the KATZ CONSTRUCTION CO., Omaha, Neb., at $18,000, for constructing a pumping station. Noted Apr. 1.

Nekoosa, Wis.—Bonds have been voted by the citizens, according to press reports, the proceeds of which will be used for the construction of a water system.

Oshkosh, Wis.—Plans have been prepared by Henry A. Allen, Consult. Engr., Chicago, Ill., for the construction of a filtration plant with a daily capacity of 4,000,000 gal. The estimated cost is $100,000. Noted Aug. 5.

Humboldt, Iowa—(Official)—Bids will be received until 8 p.m., Sept. 6, by J. A. Parker, Town Clk., for furnishing a centrifugal pump and motor, triplex pump and motor, switchboard panel, switches and instruments. Harper & Stiles, Kansas City, Mo., is Engr.

Shelby, Iowa—An election will be held Aug. 30 to vote on the question of issuing $12,000 in bonds, the proceeds of which will be used for constructing a water-works system.

Sidney, Iowa—Bids will be received about Sept. 1 by T. T. Hatton, Mayor, for the extension of the water system. Noted July 29.

Virginia, Minn.—(Official)—Bids will be received until 8 p.m., Sept. 6, by the Water and Light Commission, for constructing a mixed pressure steam turbine. C. T. Harding is Engr.

Spearville, Kan.—Bonds for $25,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system.

Broken Bow, Neb.—(Official)—See item under "Light, Heat and Power."

✚**Omaha, Neb.**—The contract has been awarded to the OFFERMAN CONSTRUCTION CO., South Omaha, at $6336, for laying water mains.

✚**Powell, Wyo.**—According to press reports contracts have been awarded to J. E. FISHER CO., Denver, Colo., at $61,000, for constructing a water system. Noted July 1.

✚**Chouteau, Mont.**—(Official)—The contract for the construction of a municipal water system has been awarded to the F. E. EVANS CONTRACTING CO., Chouteau, at $31,215. Other bidders were: Security Bridge Co., Billings, $32,893; W. D. Lovel, Minneapolis, Minn., $33,104; Gordon & Taylor Co., Denver, Colo., $33,690; George Kemper, Minot, N. D., $33,443. Swearingen & McCulloh, Chouteau, is City Engr. Noted June 24 and July 29.

Hysham, Mont.—Plans are being prepared for the construction of a water system. The Billings Engineering & Construction Co., Billings, is Engr.

✚**Roundup, Mont.**—Contracts have been awarded to the SECURITY BRIDGE CO., at $3781 and $7509, for constructing water mains.

St. Joseph, Mo.—Bids will be received about Sept. 1 by the Board of Public Works for the extension of the water mains on Shade Ave. from St. Joseph Ave. to Fifth St.

✚**St. Louis, Mo.**—The contract for the reconstruction of the Compton Hill Reservoir has been awarded to the HIRAM LLOYD BUILDING & CONSTRUCTION CO., at $280,187. Other bidders were: McCormick-Combs Construction Co., $287,506; Hammick Quarry & Construction Co., $290,316; Carmichael-Cryden Co., $292,812; Herman Construction Co., $294,717; Fruin-Colnin Construction Co., $307,220; Prendergast-Clark Construction Co., $326,991; James Stewart Co., $329,010; American Contracting Co., $407,890. Noted Aug. 5.

✚**Argenta, Ark.**—The contract for furnishing the machinery and equipment for the new pumping station has been awarded to the HENRY R. WORTHINGTON PUMP CO., St. Louis, Mo., at $9000.

Benton, Ark.—Bonds for $85,000 have been sold. The proceeds will be used for the construction of a water and sewer system. Noted July 8.

El Dorado, Ark.—The Arkansas Light & Power Co., recently the El Dorado Light & Water Co., plans to improve the water system at El Dorado.

El Campo, Tex.—The Central Service Co. plans to install a water system. About 14,000 ft. of pipe will be required. T. J. Hardy is Pres.

Harlingen, Tex.—Bids will be received by the Cameron County Irrigation District No. 1 until Sept. 2 for the construction of two flumes.

Mart, Tex.—Bonds for $21,000 have been voted by the citizens, the proceeds of which will be used for the extension of the water system.

Kusa, Okla.—(Henryetta post office)—According to press reports the Kusa Townsite & Improvement Co. plans to build a water system.

Santa Rosa, N. M.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., has been engaged to prepare plans for the construction of a municipal water system and electric-light plant.

Colorado Springs, Colo.—The citizens plan to hold a special election to vote on the question of issuing $175,000 in bonds. The proceeds will be used for the improvement of the water system.

Caldwell, Idaho—Surveys are being made by the Succor Creek Irrigation District for a project to reclaim 10,000 acres of land. The work will include a diversion dam, storage

reservoir and distribution system. The estimated cost is $110,000.

Council, Idaho—An election will soon be held to vote on the question of issuing $18,000 in bonds, the proceeds of which will be used for the construction of a municipal water system.

✚**Mountain Home, Idaho**—The Mountain Home Coöperative Irrigation Co. has awarded the contract for the construction of an irrigation system to MANEY BROS., Boise, at $62,000.

✚**Bingham Canyon, Utah**—(Official)—The contract for the improvement of the water systems has been awarded to KEELER BROS., Denver, Colo., at $17,000. John Duser, Salt Lake City, is City Engr. Noted July 29 and Aug. 19.

Newport, Ore.—The city has been granted a permit for the use of the waters of Spencer Creek for the construction of a municipal water system. The work will include the construction of a dam, concrete reservoir and a pipe line about 10 miles long. The estimated cost is $24,000. John H. Lewis is State Engr.

✚**Arcadia, Calif.**—The MERCHANTS REALTY & INVESTMENT CO., Van Nuys Bldg., Los Angeles, at $12,456, has been awarded the contract for the construction of two concrete reservoirs.

Arcadia, Calif.—Bids will be received until Sept. 2 by the City Trustees for digging and backfilling about 20 miles of water main trenches. George E. Grimes is City Clk.

Lindsay, Calif.—According to press reports plans are being considered for the formation of the Lindsay-Strathmore Irrigation District to irrigate 18,550 acres. The estimated cost is $1,568,169.

✚**Orosi, Calif.**—The contract has been awarded to MICHAEL J. CARROLL, Exeter, for constructing a water system at East Orosi.

Porterville, Calif.—The Deer Creek Irrigation District, recently organized, plans to construct an irrigation system at an estimated cost of $1,000,000. Stephen E. Kieffer, San Francisco, is Ch. Engr.

Matheson, Ont.—Plans are being prepared by McAustan & Anderson, Engr., North Bay, for the construction of a water system. Bonds for $20,000 have been voted for this purpose. Noted Aug. 12.

✚**Perth, Ont.**—THE ROBERTS FILTER MFG. CO., Philadelphia, Penn., at $15,000, has been awarded the contract for the installation of a filtration plant.

SEWERS

Briarcliff Manor, N. Y.—Plans are being prepared by Clyde Potts, Consult. Engr., 30 Church St., New York, for the construction of approximately six miles of vitrified pipe sewers, settling tanks, sand filters and a sewage pumping station.

Farmingdale, N. Y.—Plans have been prepared for the construction of a sewage-disposal plant at the New York State Farm School of Agriculture. The estimated cost is $35,000.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Sept. 1, by L. H. Pounds, Borough Pres., for the construction of sewer basins in New Jersey, Hegeman, Glenmore, Williams Ave., West, Pine and Hemlock St.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received Aug. 18 by Marcus M. Marks, Borough Pres., for the alterations and improvements to the sewers in (a) First Ave., (b) outlet sewer at Dyckman St. and the Hudson River, including the construction of a submerged outlet and screening chamber, as follows: C. E. Farrell Contracting Co., (a) $5940; P. Reilly, (a) $4999; Lawrence Contracting Co., (a) $6051; Melrose Construction Co., (a) $4537, (b) $36,561; J. H. Haidwvan, (a) $4595; P. J. Kearns Contracting Co., (a) $5041, (b) $48,185; Casperine & DeBlasio, 357 East 116th St., New York, (a) $4457, (b) $51,250; Fitzgerald & Brennen, (a) $5158; E. J. Grannis, (a) $4999; Kingsbridge Contracting Co., (b) $35,380; Merrill Ruckgaber Co., (b) $44,397; H. E. Fox Construction Co., 81 East 125th St., New York, (b) $32,040; P. J. Duffy, (b) $53,530. Noted Aug. 12.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—The contract for the construction of sewers in Ellwood St. and Sherman Ave. has been awarded to W. F. ELRAY, 1640 Maconds Dam Rd., New York. Noted Aug. 19.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Sept. 1, by Maurice E. Connolley, Borough Pres., for the construction of sewers and appurtenances in Maspeth, Perry, Maurice, Grant, Clark Ave. and Rust St., Second Ward.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received Aug. 12 by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Atlantic Ave., Fourth Ward, as follows: Murphy Bros. $31,811; Frank Paino, $32,676; Green Contracting Co., $38,836; L. E. Kelly, $41,264; Clancy & Van Alst, $39,948; Peace Bros., $40,385; H. J. Mullen Contracting Co., $37,641; Rosenthal Engineering & Contracting Co., $43,389; Joseph L. Segretti Co., $41,828; Stanhope Contracting Co., $36,891; A. Paino, 67 Bay 47th St., Brooklyn, $31,460. Noted Aug. 12.

Schenectady, N. Y.—At a recent election the citizens voted to issue $80,000 in bonds, the proceeds of which will be used for completing the sewage-disposal plant and constructing trunk sewers to connect with the intercepting sewer.

✚**Skaneateles, N. Y.**—The contract for the construction of a sewer in Elizabeth St. has been awarded to SAMUEL BONN, Syracuse. The estimated cost is $5000.

✚**Utica, N. Y.**—The contract for the construction of segment block storm relief sewers in Jay St. and Kossuth Ave. has been awarded to N. D. PETERS & CO., at $11,874. Noted July 29.

✚**Yonkers, N. Y.**—Contracts for sewer construction have been awarded to JOHN O. WESTON, at $8349, for constructing McLean and Wakefield Ave. sewer; C. I. PEARSALL, at $7745, for reconstructing the Hawthorne and Warburton Ave. outlet sewers at Wells Ave.

South Boundbrook, N. J.—Plans are being prepared by Clyde Potts, Consult. Engr., 30 Church St., New York, N. Y., for the construction of approximately five miles of 8- to 15-in. vitrified sewers and settling tanks.

✚**Wildwood, N. J.**—The contract for the construction of a sewage-disposal plant has been awarded to STANLEY KALBACK, Wildwood, at $36,044.

Sunbury, Penn.—The city contemplates the construction of a sewer system. The estimated cost is $500,000.

Baltimore, Md.—The Sewerage Commission has appropriated $5000 for the construction of sewers in 26th St. and Huntington Ave.

Altavista, Va.—The city contemplates the construction of sewer and water systems. The estimated cost is $35,000.

Crewe, Va.—The city contemplates the construction of approximately 5½ miles of sewers. J. K. Ord is Mayor.

Richmond, Va.—Bids will soon be received for the construction of a sewer system in Scotts Addition. The estimated cost is $55,000.

South Boston, Va.—At a recent election the citizens voted to issue $100,000 in bonds. Part of the proceeds will be used for the construction of sewers. W. L. Penick is Mayor. Noted Aug. 5.

Albemarle, N. C.—(Official)—The estimated cost of the proposed sewer system is $25,000. Bids will be received by the City Commissioners. J. W. D. Spinks is City Engr. Noted Aug. 12.

Raeford, N. C.—The city contemplates the construction of sewer and water systems. The estimated cost is $40,000.

✚**Warrenton, N. C.**—(Official)—The contract for the construction of approximately 7½ miles of sewers has been awarded to W. M. WILKES, Atlanta, Ga. Noted July 22.

Cartersville, Ga.—(Official)—At a recent election the citizens voted to issue $60,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted July 22.

Eustis, Fla.—(Official)—An election will be held Oct. 5 to vote on the question of issuing $20,000 in bonds. The proceeds will be used for the construction of approximately three miles of sanitary sewers and Imhoff tanks. Noted July 29.

Leesburg, Fla.—An election will be held Sept. 11 to vote on the question of issuing $35,000 in bonds. The proceeds will be used for the construction of sewers. L. M. Johnson is City Clk.

New Iberia, La.—It is reported that the city contemplates the construction of a sewer system.

North Chattanooga, Tenn.—The city contemplates issuing $50,000 in bonds, the proceeds of which will be used for the construction of a sewer system.

Bardwell, Ky.—The city contemplates the construction of a sewer system.

Owensboro, Ky.—The Council has appropriated $6000 for the construction of a sewer in the Old Ravine on West Second St.

★**Paducah, Ky.**—(Official)—All bids received Aug. 3 by L. A. Washington, Comr. of Pub. Wks., for the construction of the outfall sewer, District No. 3, Contract No. 1, were rejected. New bids will not be received until after the election in November at which the citizens will vote on a bond issue. Noted Aug. 12.

✚**Cincinnati, Ohio**—The contract for the construction of a sewer in Hoge St. has been awarded to M. J. McCARTHY, at $8310.

✚**Cuyahoga Falls, Ohio**—The contract for the construction of the Portage St. sewer has been awarded to B. R. BREEN, Akron, at $7641.

✚**Hamilton, Ohio**—(Official)—The contract for the construction of sanitary sewers has been awarded to the JOHN L. WALKER CO., Hamilton, at $22,507. Noted Aug. 12.

Mansfield, Ohio—The city contemplates the construction of sewers in various streets, estimated to cost $7700. W. J. Hazeltine is City Engr.

Portsmouth, Ohio—Preliminary plans are being prepared by George S. Wilhelm, City Engr., for the construction of sewers in the northern and eastern sections of the city extending into Lawsons Run.

Indianapolis, Ind.—The Board of Public Works plans to construct a sanitary sewer interceptor to connect the Warman Ave. sewer with the Harding St. interceptor. The estimated cost is $25,000. B. J. T. Jeup is City Engr.

Logansport, Ind.—(Official)—Bids will be received about Jan. 1 for the construction of sewers in the eastern section of the city. The estimated cost is $35,000. William Pickett is Clk. Noted Aug. 19.

Detroit, Mich.—Plans are being prepared by Mason L. Brown, Engr., for the extension of the Ford Village sewer system into new subdivisions.

Mason, Mich.—An election will be held Sept. 14 to vote on the question of issuing $34,000 in bonds, the proceeds of which will be used for the completion of the lateral and trunk sewers and for the construction of a sewage-disposal plant.

Aurora, Ill.—Plans are being prepared by Myron Tarble, City Engr., for the construction of septic tanks at sewer outlets. One septic tank will be constructed each year at an estimated cost of $10,000.

Appleton, Wis.—Plans have been prepared by A. C. Bemley, City Engr., for the construction of approximately 16,000 ft. of trunk sewers.

✚**Mayville, Wis.**—The contract for the construction of a sewer system has been awarded to DAVID VON STELLE CO., Sheboygan, Wis., at $31,450. Noted July 15.

Superior, Wis.—The City Commission has authorized the construction of sewers in Cadotte Ave. and West 12th St. The estimated cost is $10,000.

Sioux City, Iowa—Plans have been prepared by T. H. Johnson, City Engr., for the construction of approximately 15,500 ft. of 8-in. sewers. Bids will be received about Sept. 1. The estimated cost is $12,000. P. J. Wells is City Clk.

Ely, Minn.—The Council has instructed the City Engineer to prepare plans for the construction of a settling tank with a capacity of 600,000 gal.

Lincoln, Neb.—The city contemplates the construction of a sewer system in the region bounded by O St., the high school, 21st St. and the Antelope Channel. The estimated cost is $11,000. Adna Dobson is City Engr.

✚Watertown, S. D.—(Official)—The contract for sewer construction has been awarded to the OFFERMAN CONSTRUCTION CO., South Omaha, Neb., at $79,289. Noted July 29.

Thermopolis, Wyo.—Bids will be received until 2 p.m., Sept. 6, by A. J. Lowry, Town Clk., for the construction of a sewer system.

Bozeman, Mont.—The city contemplates the construction of sewers in South Sixth and Church Ave. The estimated cost is $14,000.

Columbus, Mont.—The city contemplates the construction of a sewer system in the business section.

Carthage, Mo.—Plans are being prepared by C. B. Newton, City Engr., for the construction of sewers in two districts.

Liberty, Mo.—It is reported that an election will soon be held to vote on the question of issuing $20,000 in bonds. The proceds will be used for extending the sewers.

✚Poplar Bluff, Mo.—(Official)—The contract for the construction of sewers in Sanitary Sewer District No. 2 has been awarded to V. E. KOCH, Joplin, at $16,749. Noted Aug. 5.

✚St. Louis, Mo.—The contract for the construction of the Florissant Ave. public sewer extensions in Sections Nos. 1 and 2 has been awarded to the MYERS CONSTRUCTION CO., St. Louis, at $6623. Noted Aug. 15.

✚Argenta, Ark.—The contract for two 14,000-gal. sewage pumps, two 60 hp. slow speed motors and other equipment has been awarded to HENRY R. WORTHINGTON, 115 Broadway, New York, N. Y. Noted Aug. 5.

✚Fordyce, Ark.—The contract for the construction of a sewer system has been awarded to WILLIAM S. McDOWELL, at $20,000.

Little Rock, Ark.—The city will construct, by day labor, a main sewer interceptor from the 19th St. viaduct to Fourche Bayou. The estimated cost is $5000.

Midvale, Utah—The city contemplates the construction of sewer and water systems.

Richfield, Utah—At a recent election the citizens voted to issue $25,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted Aug. 19.

Bellingham, Wash.—The city contemplates the construction of a trunk sewer in Ellis St. The estimated cost is $12,000.

Pullman, Wash.—Bids will be received until 8 p.m., Sept. 7, by the city, for the construction of sewers in Improvement District No. 24. The estimated cost is $12,000. L. V. Edwards is City Engr. Noted June 24.

Seattle, Wash.—Bids will soon be received for the construction of the Ballard trunk sewer. The estimated cost is $436,182. A. H. Dimock is City Engr. Noted June 10.

Forest Grove, Ore.—(Official)—Plans are being prepared for the construction of storm sewers. The estimated cost is $15,000. A. A. Kirkwood is City Engr.

Auburn, Calif.—An election will be held Sept. 14 to vote on the question of issuing $22,000 in bonds. Part of the proceeds will be used for extending the sewer system. Noted July 1.

✚Los Angeles, Calif.—The contract for the construction of sewers in Fountain Ave. has been awarded to ADAM DALMATION, at $10,975. Noted Aug. 19.

Santa Barbara, Calif.—Bids will be received until Sept. 16 by the City Clerk for the construction of sewers. The estimated cost is $21,000. A. B. Cook is City Engr.

✚Santa Cruz, Calif.—The City Council has awarded the contract for the extension of the sewer system to W. J. TOBIN, Santa Cruz, at $9842.

Toronto, Ont.—Bids will be received until noon, Aug. 31, by T. L. Church, Chn., Bd. of Control, for the construction of sewers in Dundas, Erie, Clair and Russel Hill St.

GARBAGE

Akron, Ohio—The Director of Public Service is receiving bids for the collection and disposal of garbage for one year. Estimated cost, $20,000 to $24,000.

Mansfield, Ohio—At a recent election the citizens voted in favor of the question of issuing $10,000 in bonds, the proceeds of which will be used for enlarging the garbage crematory.

Rock Island, Ill.—Bids will be received until 2 p.m., Sept. 1, for the installation of a 24-ton garbage incinerator.

STREETS AND ROADS

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 31, by the State Highway Commission for the construction of 5200 lin.ft. of state road in Chelmsford Township.

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 31, by the State Highway Commission for constructing 13,600 lin.ft. of state highway in Ware and Palmer Townships.

✚Greenwich, Conn.—(Official)—The contract for resurfacing a portion of Putnam Ave. has been awarded to the CHARLES T. EASTBURN CO., 104 West Sidney Ave., Mt. Vernon, N. Y.

Hartford, Conn.—Bids were received by the State Highway Commissioner, Aug. 16, for state road work as follows: Southington Township, about 6200 lin.ft. 2-in. bituminous macadam on the Misery Brook Rd., Leonardo Suzio, Meriden, $8976; Berardino & Tomasetti Construction Co., Inc., Meriden, $12,208; Robert D. Daley Co., New Haven, $12,599; Thomas Kearney, Meriden, $10,191; H. L. & W. L. Immich, Meriden, $10,406; A. D. Bridge's Sons, Inc., Hazardville, $9897; Lane Construction Corporation, Meriden, $10,191; Louis Longhi & Bro., Torrington, $10,866. North Haven Township, about 4950 lin.ft. trap rock macadam on the Mount Carmel Rd. A. D. Bridge's Sons, Inc., Hazardville, $6932; Lawrence Bruce, North Haven, $8908; John Arborio, 172 Congress Ave., New Haven, $7195; Robert D. Daley Co., New Haven, $7104; Thomas Kearney, Meriden, $7032; H. L. & W. L. Immich, Meriden, $7006; Stafford & Mather, Hartford, Conn., $7547. Waterford Township, about 5937 lin.ft. native stone macadam on the Hartford-New London Turnpike, Framingham Con[illegible]ction Co., South Framingham, Mass., $9822; Louis Longhi Bro. Torrington, $12,012; Stafford & Mather, Hartford, [illegible]545; Goodman & Trumbull Co., Litchfield, $10,543; Robert [illegible]filler Contracting Co., Hartford, $10,926; Doan O'Connor, 803 [illegible]n St., Hartford, $12,480; Frank A. Wilcox, Norwich, $11,175; [illegible]chle B. Cadwell, New Britain, $10,750; A. D. Bridge's So[illegible] Inc., Hazardville, $13,480; John Arborio, 172 Congress Av[illegible] New Haven, $12,398. Middlefield Township, about 4940 lin[illegible]-in. bituminous macadam resurfacing on the Middlefield [illegible] F. Arrigoni & Bro., Middletown, $7570; A. Brazos & Sons, [illegible]dle-town, $8903. Noted Aug. 5.

✚Hartford, Conn.—The contract for constructing about 2590 lin.ft. of amiesite pavement on Main St., Killingly Township, Danielson post office, has been awarded to the CONNECTICUT & RHODE ISLAND CO., Meriden, at approximately $8825. Noted Aug. 5.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received until 10:30 a.m., Aug. 31, by Douglas Mattheson, Borough Pres., for regulating, grading, curbing and laying sidewalks on a number of streets.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Aug. 18 by L. H. Pounds, Borough Pres., for improving 83rd St. from Seventh to 12th Ave., as follows: Uvalde Asphalt Paving Co., $14,936; Cranford Co., $15,191; Brooklyn Alcatraz Asphalt Co., $13,812; Barber Asphalt Paving Co., $15,272. Noted Aug. 12.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for regulating and repaving Jamaica Ave. from Broadway to the borough line has been awarded to the H. J. MULLEN CONTRACTING CO., Fulton St., Jamaica, at $165,297. Noted Aug. 5 and 19.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 31, by Marcus M. Marks, Borough Pres., for regulating, grading, curbing and laying sidewalks on various streets.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received Aug. 19 by Maurice E. Connolly, Borough Pres., for regulating and repaving with improved granite blocks on a concrete foundation, Grand St. from the main line of Long Island R.R. to Hoffman Blvd., as follows: Lanford Co., $32,617; W. J. Scanlon Co., $29,244; Clancy & Nuhn, $29,893; Charles Puckelwaldt, $34,013; J. B. La Marsh, $32,918; H. J. Mullen Contracting Co., $28,809; Evergreen Construction Co., $29,998; Peace Bros., $34,084; Rosenthal Engineering & Contracting Co., $30,467. Noted Aug. 12.

Belleville, N. J.—(Official)—Bids will be received until 8:30 p.m., Aug. 31, by the Board of Commissioners of Belleville for paving Belmont Ave., Heckel St. and Overlook Ave. Frank T. Shepard is Town Engr.

Collingswood, N. J.—The Borough Council has voted to improve the important streets with coatings of asphalt oil.

Englewood, N. J.—(Official)—Bids will be received until noon, Sept. 7, by the Board of Chosen Freeholders of Bergen County, Hackensack, for improving Palisade Ave. from Engle Ave. to the entrance to Interstate Park.

Jersey City, N. J.—Bids will be received until Sept. 2 by the Board of Commissioners for repaving Garfield Ave. from Bay View Ave. to Merritt St.

Jersey City, N. J.—(Official)—Bids will be received until 11 a.m., Sept. 2, by the Board of City Commissioners for repaving Arlington and Bay View Ave. Michael I. Fagen is City Clk. and Charles A. Van Keuren is City Engr.

Jersey City, N. J.—Bids will be received until 11 a.m., Sept. 9, by the Board of City Commissioners for repaving Pine St. and Communipaw Ave. Michael I. Fagen is City Clk.

Jersey City, N. J.—Bids will be received until Sept. 2 by the Board of Commissioners for improving Columbia Ave.

✚Keyport, N. J.—The City Council has awarded a contract to CHARLES E. BURD, Red Bank, at $11,034, for the improvement of Broad St. with concrete pavement. Noted June 24 and July 15.

Long Branch, N. J.—The Board of Freeholders of Monmouth County, Freehold, plans to resurface Atlantic Ave.

★Montclair, N. J.—(Official)—Bids will be received until 8 p.m., Sept. 13, by Harry Trippett, Town Clk., for constructing concrete curb on either side of Valley Rd. from Church St. to Normal Ave., a distance of approximately 17,000 lin.ft.

Newark, N. J.—(Official)—Bids will be received until 3:30 p.m., Sept. 7, by the Board of Chosen Freeholders of Essex County for improving Central Ave., East Orange, and Washington Ave., Nutley. Frederic A. Reimer is County Engr.

Newark, N. J.—The Board of Freeholders has approved the construction of a new road at Overbrook Hospital to cost $12,780. Frederic A. Reimer, County Engr., will prepare plans and specifications.

Newark, N. J.—Bids were received Aug. 12 for repaving Belleville Ave. from Broad St. to Bloomfield Ave., as follows: Newark Paving Co., $15,346; Glenfield Construction Co., $15,386; Jackson Contracting Co., $15,744; Van Keuren & Son, $15,750; John S. Geiger & Son, $15,860; Alexander J. Milmoe, $16,243; Ralph Sangiovanni, $16,329.

✚Summit, N. J.—The contract for paving Morris Ave. has been awarded to C. H. WINANS & CO., Elizabeth, at $16,029.

Union, N. J.—(Weehawken post office)—(Official)—Bids will be received until 8 p.m., Sept. 7, by the Town Council for remaking, improving and repaving portions of Fulton St. and Bergenline Ave. Emil Bantz is Town Clk.

Bethlehem, Penn.—The City Council will soon receive bids for paving Broad St. from the western borough limits to First Ave., Linden St. from Broad St. to the northern borough limits, South Main St. from Eagle Hotel to Chapel, North Main St. from Garrison to Goepp St. and Prospect Ave. from Hanover St. to Hanover Ave.

Bloomsburg, Penn.—Bids will be received until Aug. 31 by W. H. Eyer, City Engr., for improving Market St.

Harrisburg, Penn.—(Official)—Bids will be received until noon, Aug. 30, by W. H. Lynch, Supt. of Sts. and Pub. Imp., for constructing approximately 8000 sq.yd. of sheet asphalt, 8500 sq.yd. of bituminous concrete and 4900 lin.ft. of 6-in. granite or granolithic curbing on 10 streets.

★**Marcus Hook, Penn.**—(Official)—Bids will be received until 8 p.m., Sept. 6, by Jesse Devonshire, Pres. of the Borough Council, for constructing approximately 7000 sq.yd. of pavement and 800 sq.yd. of concrete gutter. Charles Upham is Ch. Engr.

Philadelphia, Penn.—(Official)—Bids will be received until Aug. 31 by the Department of Public Works for improving a number of streets.

Philadelphia, Penn.—The McNichol Paving Co., 1723 Cherry St., at $212,500, submited the lowest bid for improving Delaware Ave. from Queen to Vandalia St.

✚**York, Penn.**—The contract for paving Newberry, West Poplar and West Philadelphia St. with asphalt has been awarded to the GENERAL SUPPLY & CONSTRUCTION CO., York, at $21,275.

✚**Georgetown, Del.**—A contract for constructing 20 miles of concrete road from Georgetown to Shelbyville has been awarded to the UTILITY CONSTRUCTION CO., New Brunswick, N. J., at approximately $35,544. Noted Aug. 12.

★**Wilmington, Del.**—All bids received Aug. 10 for improving a number of streets were rejected. Noted Aug. 5.

Monterey, Va.—Press reports state that the City Council will pave Main St. with macadam. Bonds for this purpose have recently been voted.

South Boston, Va.—At an election held Aug. 10, the citizens voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for improving streets. Noted Aug. 5.

Parkersburg, W. Va.—The City Council has voted to pave Levee Drive, Ann St. and Murdoch Ave. with brick, 16th, 13th, Covert and other streets with concrete.

Wheeling, W. Va.—Bids will be received until 10 a.m., Aug 27, by George W. Steenrod, County Rd. Engr., for macadamizing various county roads.

Angier, N. C.—At an election held Aug. 7 the citizens of Black River Township voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for constructing roads.

Dobson, N. C.—At a recent election the citizens voted in favor of issuing $30,000 in bonds, the proceeds of which will be used for constructing roads in Shoals Township, Surry County.

Franklin, N. C.—An election will be held Sept. 11 to vote on the question of issuing bonds, the proceeds of which will be used for improving roads in Ellajay Township.

Florence, S. C.—Bonds for $40,000 have been sold, the proceeds of which will be used for improving streets. Noted June 17.

Gaffney, S. C.—Press reports state that the City Council contemplates an expenditure of $10,000 for street paving. John Jenkins is Engr.

Sumter, S. C.—An election will be held Sept. 7 to vote on the question of issuing $225,000 in bonds, the proceeds of which will be used to improve streets.

Cartersville, Ga.—(Official)—At a recent election the citizens voted in favor of issuing $15,000 in bonds, the proceeds of which will be used for street paving. Noted July 1 and Aug. 5.

Savannah, Ga.—An election will be held Sept. 21 to vote on the question of issuing $375,000 in bonds, the proceeds of which will be used for constructing a road from Savannah to Tybee, Chatham County.

Bradentown, Fla.—At a recent election the question of issuing $9000 in bonds, the proceeds of which was to have been used for paving Ware Creek Causeway and various streets, was defeated. Noted June 24.

Eustis, Fla.—(Official)—An election will be held Oct. 5, to vote on the question of issuing $40,000 in bonds, the proceeds of which will be used for street paving. Noted Jan. 21 and Mar. 11.

Pinellas Park, Fla.—All bids received for paving various streets with brick have been rejected. Noted July 1.

Sanford, Fla.—Press reports state that an election will be held Sept. 6 to vote on the question of issuing $250,000 in bonds, the proceeds of which will be used for hard surfacing 35 miles of road in Seminole County.

Vernon, Ala.—The Commissioners of Lamar County contemplate an expenditure of $150,000 for constructing roads throughout Lamar County.

Oberlin, La.—Bids will be received until Sept. 13 by C. Lindsley, Clk. of the Police Jury, for the sale of $150,000 in bonds, the proceeds of which will be used for constructing roads and bridges in Road District No. 5.

✚**Chattanooga, Tenn.**—The contract for paving Market St. from Ninth to Main St. and East Ninth St. from Market to A St. with wooden blocks has been awarded to the SOUTHERN PAVING & CONSTRUCTION CO., at $58,833. Noted June 24.

✚**Waverly, Tenn.**—A contract for constructing Humphreys County Highway has been awarded to the OLIVER HILL CONSTRUCTION CO., at approximately $200,000.

Columbia, Ky.—A special election will be held Sept. 11 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for building roads in Adair County.

Nicholasville, Ky.—(Official)—Bids will be received until noon, Sept. 7, by the Fiscal Court of Jessamine County for constructing approximately 1¼ miles of turnpike known as the Thomas Beaumont Rd. C. S. Woodward is Rd. Engr. of Jessamine County.

Ashland, Ohio—Press reports state that the City Council plans to pave West Sandusky St.

Carrollton, Ohio—Press reports state that the City Council plans to sell $35,000 in bonds, the proceeds of which will be used for paving Malvern St.

Cincinnati, Ohio—Contracts have been awarded for paving Rittenhouse St., Walter Ave. from Gilbert Ave. to its northern terminus to the KIRCHNER CONSTRUCTION CO., at $9613 and $6208 respectively; Ridgeway Ave. from Fredonia to Drexel St., to S. M. TANNER, at $2266.

Columbus, Ohio—(Official)—Bids will be received until Sept. 10 by Clinton Cowen, State Highway Comr., for improving roads in various counties.

✚**Cuyahoga Falls, Ohio**—The contract for paving Portage St. has been awarded to WINDSOR BROS., at $33,673. Noted July 15.

✚**Dayton, Ohio**—(Official)—The contract for paving Grand Ave. with brick has been awarded to CLIFTON HOOLIHAN, River St., Dayton. Noted Aug. 12.

East Liverpool, Ohio—(Official)—Bids will be received until noon, Sept. 2, by the Board of Trustees of St. Clair Township for constructing and improving several roads.

✚**Hudson, Ohio**—A contract for paving a number of streets has been awarded to WATTERS & DOWNS, Akron, at $35,000.

Lisbon, Ohio—(Official)—Bids will be received until noon, Aug. 30, by the Trustees of Center Township, Columbiana County, for improving roads. R. T. Morris is Clk. of the Trustees.

Lorain, Ohio—(Official)—Bids will be received until noon, Sept. 8, by L. B. Johnston, Dir. Pub. Ser., for paving East 28th St. from Broadway to the west approach of the subway.

Newark, Ohio—(Official)—Bids will be received until noon, Sept. 8, by the Commissioners of Licking County for constructing Sections 2 and 3 of the Granville and Croton Pike.

Salem, Ohio—Bids will be received until Sept. 2 by the Director of Public Service for paving Goshen Ave. and Tenth St. with brick.

Toledo, Ohio—Bids will be received until noon, Aug. 31, by Albert Neukom, Dir. Pub. Ser., for paving a number of streets.

Indianapolis, Ind.—Bids will be received until 10 a.m., Sept. 3, by the Board of Public Works for improving Winthrop Ave., 42nd and 22nd St.

★**La Porte, Ind.**—(Official)—The contract for paving Lincolnway and Lincolnway East with Danville repressed paving block with asphalt filler, 1½-in. sand cushion and 6-in. concrete foundation, has been awarded to FRANK J. KING, La Porte, at $20,988.

✚**South Bend, Ind.**—(Official)—A contract for constructing a concrete road in Penn Township has been awarded to TABER & HULLIHAN, Wabash, $53,936. Noted July 22.

✚**Howell, Mich.**—(Official)—The contract for paving Grand River Blvd. has been awarded to WILLIAM H. RYAN, Lansing, at $25,379. Other bids were: Victor Seger, Saginaw, $24,652; Henry Vanderveen, Grand Rapids, $25,089; A. H. Prange, $27,392; Herman & Green, $26,558; Clamer & Johnson, Hicksville, $27,182. Noted Aug 12.

✚**Pontiac, Mich.**—A contract for constructing 7150 lin.ft. of concrete road has been awarded to the R. D. BAKER CONSTRUCTION CO., Detroit, at $16,355.

✚**Chicago, Ill.**—A contract for street paving has been awarded to the R. F. CONWAY CO. and the AMERICAN PAVING CO. at approximately $360,000.

Mattoon, Ill.—The Board of Local Improvements has approved plans for paving South 18th St., at an estimated cost of $25,848.

✚**Woodstock, Ill.**—(Official)—The contract for constructing concrete pavements on Newell St., Madison St. and McHenry Ave. has been awarded to LOGAN & GIERTZ, Elgin, at $21,700. Noted Aug. 12.

Boscobel, Wis.—Bids will be received until noon, Sept. 2, by the City Clerk for improving various streets.

Green Bay, Wis.—Bids will be received until 2 p.m., Aug. 30, by the City Clerk for paving Emilie St. from Jackson to Van Buren St. with reinforced concrete.

Reedsburg, Wis.—Bids will be received until 7:30 p.m., Sept. 14, by the City Clerk for paving North Albert Ave.

✚**Burlington, Iowa**—The contract for paving one mile of the Agency Rd. with concrete has been awarded to CAMERON, JOYCE & CO., Keokuk, at $15,000.

✚**Valley Junction, Iowa**—A contract for constructing 22,100 lin.ft. of curbing has been awarded to RAYMOND H. WHITE & CO., at $0.277 per lin.ft. Noted July 8.

Northfield, Minn.—At a recent election the citizens voted in favor of issuing $19,000 in bonds, part of the proceeds of which will be used for street paving. Noted Aug. 5.

Pipestone, Minn.—The City Council plans to pave approximately 30 blocks of street with concrete, at an estimated cost of $100,000.

Atchison, Kan.—(Official)—Bids will be received until 5 p.m., Sept. 6, by Victor L. King, City Clk., for paving a portion of Mound St.

Great Bend, Kan.—Bids will be received until 1 p.m., Sept. 1, by F. A. Moses for constructing 20,671 sq.yd. of asphaltic concrete pavement.

✚**Mitchell, S. D.**—The contract for paving West Fourth St. has been awarded to C. H. ATKINSON.

✚**Watertown, S. D.**—A contract for paving a number of alleys has been awarded to C. H. ATKINSON, Watertown, at $4912.

✚**Missoula, Mont.**—The contract for paving Pattee St. has been awarded to J. C. McGUIRE, Butte, at $21,252. Other bids were: G. H. Nash & Co., $22,324; M. F. Rohn Construction Co., Butte, $23,592.

✚Kansas City, Mo.—The contract for grading 39th St. from Jackson to Indiana Ave. has been awarded to A. W. WOOLEY, 2819 Belleville St., at $4027.

✚Kansas City, Mo.—The contract for grading Woodland Ave. from 43rd St. south to Swope Parkway has been awarded to NORTON BROS., 3517 Main St., at $11,895. Other bids were: W. C. Mullins, 24th and Wyandotte St., $17,955; J. O. West, 916 Charlotte St., $18,855; Edward Meegan, 23rd St. and Hardesty Ave., $19,920.

St. Joseph, Mo.—Bids will be received until Sept. 1 by the Board of Public Works for grading Commercial St. from 22nd to 29th St. and 29th St. from Commercial St. to Valley Rd.

✚Houston, Tex.—(Official)—The contract for resurfacing the Wallisville Rd. from Cushing Ave. to Hunting Bayou has been awarded to HANSON & SONS, Galveston, at $6412. Noted Aug. 12.

Ingleside, Tex.—At a recent election, the citizens of Aransas County Road District No. 3 voted in favor of issuing $75,000 in bonds, the proceeds of which will be used for constructing roads.

Liberty, Tex.—Press reports state that a special election will be held Sept. 22 to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for constructing the Cleveland precinct link of the Lufkin-Livingston-Houston Highway.

Port Lavaca, Tex.—Bids will be received until Sept. 1 by H. C. Innis, Mayor, for the sale of $17,000 in bonds, the proceeds of which will be used for street improvements. Noted July 15 and Aug. 12.

✚Vernon, Tex.—A contract for street paving has been awarded to the TAYLOR BUILDING CO., Ft. Worth, Tex., at $14,800.

Woodville, Tex.—An election will be held Aug. 28 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for road construction in District No. 1, Tyler County.

American Fork, Utah—Bids will soon be received by the Commissioners of Utah County, Provo, for constructing about two miles of road from American Fork to Pleasant Grove.

Solomonsville, Ariz.—A special election will be held in the fall to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing roads in Graham County.

Auburn, Wash.—The City Council has passed an ordinance authorizing the paving of approximately 19 blocks in the residential section, at an estimated cost of $30,266.

✚Bellingham, Wash.—The contract for paving D St. with asphalt has been awarded to the WASHINGTON PAVING CO., Tacoma, at $9384.

Calumet, Wash.—Bids will be received until 1 p.m., Sept. 7, by the Auditor of Wahkiakum County for improving portions of State Road No. 19.

✚Centralia, Wash.—The Lewis County Commissioners has awarded a contract for surfacing a section of the road on Jackson Prairie to SPEAKER & McKEE, at $5927.

✚Colfax, Wash.—The contract for constructing Permanent Highways Nos. 9-A and 9-B has been awarded to W. G. MULLIGAN & CO., Spokane, at $20,800. Noted Aug. 5.

✚Olympia, Wash.—The contract for constructing the Inland Empire Highway from Colville to Spokane has been awarded to E. G. MINER, Sandpoint, Idaho, at $11,560. Noted July 29.

Olympia, Wash.—Bids will be received until 2 p.m., Sept. 8, by W. R. Roy, State Highway Comr., for surfacing three miles of National Park Highway from Ashlock to Frances in Pacific County.

Puyallup, Wash.—Bids will soon be received for grading and graveling Fifth St. in Southwest Hill District. The estimated cost of the work is $18,050.

Tacoma, Wash.—Bids will be received until 11 a.m., Aug. 28, by the Commissioners of Pierce County for improving 5.574 miles of the Pacific Highway. T. N. Morris is Clk. of the Comrs.

✚Walla Walla, Wash.—The contract for paving First St. with bitulithic has been awarded to the WARREN CONSTRUCTION CO., Portland, Ore., at $15,098.

✚Coquille, Ore.—A contract for constructing one mile of hardsurfaced road has been awarded to S. C. SMALL, Marshfield.

✚Portland, Ore.—The contract for paving Washington St. from 20th St. to City Park has been awarded to the OREGON INDEPENDENT CO., Portland, at $8782. Noted July 29.

✚Los Angeles, Calif.—The contract for improving Westminster Ave. has been awarded to the CALIFORNIA-ARIZONA CONSTRUCTION CO., at $8432.

✚Martinez, Calif.—The Board of Supervisors of Contra Costa County has awarded a contract for the construction of a macadam road from the tunnel at the county line to Byron, a distance of three miles, to the RAISCH IMPROVEMENT CO., of San Francisco, Calif., at $35,625. Noted Aug. 19.

✚Richmond, Calif.—The City Council has awarded a contract for street work to GALBRAITH & JANES, at $6209.

✚Sacramento, Calif.—The California State Highway Commission has awarded contracts for highway construction as follows: Tulare County, between Goshen and Visalia, a distance of 6.4 miles, to WHITE & GASKILL, Long Beach, at $30,37; Tulare County, from the westerly boundary to the Southern Pacific grade, 3.9 miles, to WHITE & GASKILL, at $13,812; San Luis Obispo County, between Atascadero and Paso Robles, 10 miles, to JOHN D. MARSH, Bakersfield, at $67,809; Monterey County, between Greenfield and Camphora, 11.7 miles, to the HIGHWAY PAVING CO., San Francisco, at $54,507; Santa Barbara County, between Gaviota and Zaca Station, 11.4 miles, to C. H. HUDSON, Los Angeles, at $54,586; Colusa County, through the town of Arbuckle, 0.3 mile, to the CLARK & HENERY CONSTRUCTION CO., Sacramento, at $5778; Marin County, between Burdell and St. Vincent, 3 miles, to R. B. MARBLE, JR., San Francisco, at $21,255. Noted July 22 and Aug. 5.

✚Stockton, Calif.—The City Council has awarded a contract for street improvements to EATON & SMITH, 407 Sixth St., San Francisco, at $84,556.

INDUSTRIAL WORKS

✚Portland, Maine—FORGIONE & ROMANO has been awarded the contract for the reconstruction of the six-story 52x90-ft. Galt Block Warehouse, Commercial and Thames St.

Springvale, Maine—The E. E. Wentworth Corp. will construct a plant for the manufacture of automobiles. The estimated cost is $50,000.

✚Derry, N. H.—The contract for the construction of a three-story, 40x200-ft. factory for the Woodbury Shoe Co. has been awarded to CYRUS A. MARTIN. Noted June 17.

✚Blackstone, Mass.—The Blackstone Cotton Co. has awarded the contract for the construction of a two-story, 90x120-ft., brick addition to its mill to the J. W. BISHOP CO., Worcester, Mass.

✚Somerville, Mass.—The contract for the construction of a rolling mill for the American Tube Works, 19 Oliver St., Boston, Mass., has been awarded to E. A. ABBOTT, 141 Milk St., Boston, Mass. Noted Aug. 19.

✚Esmond, R. I.—The Esmond Mills has awarded the contract for the construction of two, two-story, 62x89-ft., brick storehouses to O. D. PURRINGTON & CO., Providence, R. I.

✚Providence, R. I.—The B. B. Lederer Estate has awarded the contract for the construction of an auto sales and service building on Broad St., to F. L. PIERCE, 74 Weybosset St. Noted Apr. 15.

✚Bristol, Conn.—The New Departure Mfg. Co. has awarded the contract for the construction of a one-story, 120x252-ft. factory to LEVERING & GARRISON. The estimated cost is $65,000. W. P. Crabtree, New Britain, Conn., is Arch.

Waterbury, Conn.—Plans have been prepared by Joseph T. Smith, Arch., for the construction of a four-story 64x135-ft. building at Grand and Canal St. for the Waterbury Democrat.

✚Amsterdam, N. Y.—JOHN J. TURNER & SONS has been awarded the contract for the construction of a two-story, 35x40-ft. garage for Harvey Chalmers. The Fuller & Robinson Co., 95 State St., Albany, N. Y., is Arch. The estimated cost is $15,000.

Amsterdam, N. Y.—F. P. Sheldon, Arch., is preparing plans for four-story addition to the plant of the Shuttleworth Mills Co.

Buffalo, N. Y.—The Kellogg Structural Steel Co. has purchased a site at Bailey Ave. and Stone St., and will build a 55x185-ft. fabricating shop.

New York, N. Y.—(Borough of Bronx)—Plans have been prepared by C. Demmerle, 1510 Bryant Ave., for the construction of a one-story, 75x170-ft. garage for the Ciryell Building Co., 1414 Vyse Ave. The estimated cost is $12,000.

New York, N. Y.—(Borough of Brooklyn)—The Consumers' Biscuit Mfg. Co. plans the construction of a four-story, 100x200-ft. garage to cost $100,000. William J. Dilthey, Union Sq. West (Borough of Manhattan), is Arch.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by J. Graham Glover, Arch., 222 Navy St. (Borough of Brooklyn), for the construction of a seven-story, 61x84-ft. cold-storage warehouse for the Manhattan Refrigerating Co., Gansevoort St. The estimated cost is $80,000.

Pearl River, N. Y.—Bids will soon be received by William E. Austin, Arch., 46 West 24th St., New York, N. Y., for the construction of a three-story addition to the Lederle Laboratories to cost $30,000.

Richfield Springs, N. Y.—Harold Brockway plans the construction of a two-story, 40x132-ft. garage.

✚Rochester, N. Y.—The contract for the construction of a factory for the Crowther Motor Co., Philadelphia, Penn., has been awarded to WILLIAM F. MARTENS.

Rochester, N. Y.—The Vacuum Oil Co. will build a two-story, 54x92-ft. addition to its plant by day work. The estimated cost is $45,000.

✚Union, N. Y.—The Union Forging Co. has awarded the contract for the construction of a one-story, 115x136-ft. factory to the MITCHELL CO., 74 State St., Binghamton, N. Y.

Camden, N. J.—The New Jersey Auto Supply Co. will build a two-story, 80x129-ft. garage. J. C. Jeffries, 1001 Chestnut St., Philadelphia, Penn., is Arch.

East Orange, N. J.—The Nitram Mfg. Co. will build a one-story, 40x160-ft. factory on Lang St. The estimated cost is $10,000.

✚Elizabeth, N. J.—The Waclark Wire Works has awarded the contract for the construction of a one-story factory to the ALMON ENGINEERING & CONSTRUCTION CO. The estimated cost is $16,000.

Allentown, Penn.—Bids are being received by Owen Clauss, 1340 Linden St., for the construction of a one-story, 30x60-ft. garage to cost $10,000. A. W. Leh, South Bethlehem, Penn., is Arch.

Allentown, Penn.—C. P. Clauser, Secy., Allentown Dairy Co. is receiving bids for the construction of a two-story, 20x75-ft. pasteurizing plant to cost $10,000.

Gettysburg, Penn.—George F. Eberhart will build a two-story, 57x180-ft. garage on Chambersburg St.

New Kensington, Penn.—Bids are being received by H. S. Shaw for the construction of a two-story, 60x120-ft. garage. The estimated cost is $15,000. W. J. Laughlin is Arch.

Philadelphia, Penn.—Henon & Boyle, Arch., 10 South 18th St., has prepared plans for the construction of a one-story, 37x200-ft. garage for Felt Bros.

✚Philadelphia, Penn.—R. W. Harvey has awarded the contract to JAMES JOHNSON, 1721 Ludlow St., for the construction of a one-story, 17x70-ft. garage, to cost $16,000.

Pittsburgh, Penn.—The contract will soon be awarded by Carlton Strong, Arch., Union Bank Bldg., for the construction of a one- and two-story, 40x93-ft. garage for the Bellefield Dwellings. The estimated cost is $12,000.

Pittsburgh, Penn.—Bids will soon be received by the F. L. Schmeltz Co., Arch., First National Bank Bldg., for the construction of a six-story, 60x80-ft. garage for E. W. Proeger. The estimated cost is $80,000.

Sharon, Penn.—Bids are being received by the E. E. Clepper & Cowles Co., Arch., 1005 Mahoning Bldg., Youngstown, Ohio, for the construction of a one- and two-story, 125x125-ft. garage for W. C. De Forest & Son.

Wheeling, W. Va.—The National Tube Co. contemplates the construction of a $5,000,000 plant.

✚Albemarle, N. C.—The Wiscassett Mills Co. has awarded the contract for the construction of a three-story 100x125-ft. mill to HOLDBROOKS & BRADSHAW, Salisbury, N. C. The estimated cost is $125,000.

Edenton, N. C.—The Edenton Cotton Mills plans the construction of a $20,000 addition to its plant.

Granite Falls, N. C.—The Falls Mfg. Co. will build a $100,000 mill. D. W. Warlick is interested.

✚Maysville, Ky.—The January & Wood Co. has awarded the contract for the construction of a three-story 70x116-ft. factory to HARDING & SIMONS.

Cleveland, Ohio—Plans have been prepared by the Samuel Austin & Son Co., Arch., 14,230 Euclid Ave., for the construction of an addition to the plant of the Kessler Mfg. Co., 1000 Newberg Ave. The estimated cost is $14,000.

Cincinnati, Ohio—Bids are being received by Max Kau, Arch., 2241 Stratford Ave., for the construction of a one-story, 50x106-ft. garage for the Park Garage Co. The estimated cost is $10,000.

Indianapolis, Ind.—The National Motor Car Co. will build a factory at 22d and Yandes St., to cost $30,000.

Mishawaka, Ind.—Revised plans have been prepared by the Mishawaka Woolen Mfg. Co. for the construction of a four-story, 100x235-ft. and a one-story 100x167-ft. addition to its plant.

Grand Rapids, Mich.—The Grand Rapids Paper Co.,231 Fulton St., W., will build a four-story 83x163-ft. brick plant at Bond Ave., N. E., and Fairbanks St.

Chicago, Ill.—J. J. Purcell, New York Life Bldg., will build a public garage at 4071 Broadway to cost $15,000. Doerr Bros., 28 East Jackson Blvd., is Arch.

Milwaukee, Wis.—The William Frankfurth Hardware Co., 119 West Water St., will build a two-story, 50x125-ft. warehouse. W. A. Kleinsteuber, 2912 State St., is Arch.

✚Sioux City, Iowa—The Watson Automobile Co., 523 Sixth St., has awarded the contract for the construction of a two-story, 100x150-ft. garage to JAMES B. ROBINSON. The estimated cost is $25,000. F. A. Frogh, Farmers' Loan & Trust Bldg., is Arch.

Sioux City, Iowa—The Haley, Neeley Co., Second and Pierce St., will build a four-story, 100x135-ft. cold-storage warehouse to cost $75,000. William L. Steele, United Bank Bldg., is Arch.

Albert Lea, Minn.—Bids are being received by the Albert Lea Hide & Fur Co. for the construction of a one- and two-story, 40x120-ft. warehouse to cost $12,000. Hoffman & Mosse, Rochester, Minn., is Arch.

✚Topeka, Kan.—The contract for the construction of a two-story 25x150-ft. reinforced-concrete warehouse at Second St. and Kansas Ave. for Whittelsey Bros. has been awarded to F. M. SPENCER & SON, Mulvane Bldg., at $10,000.

Wichita, Kan.—The Wichita Creamery Co. will build a three-story, 50x120-ft. creamery, at a cost of $20,000. B. F. Copley, 202 North Handley Ave., is Arch.

Omaha, Neb.—Bids are being received by Albert Kahn, Arch., 58 La Fayette Ave., Detroit, Mich., for the construction of a six-story, 132x264-ft. assembling plant for the Ford Motor Co. The estimated cost is $250,000. C. L. Gould, 1916 Harney St., is Res. Mgr. Noted Aug. 12.

Caruthersville, Mo.—It is reported that the Caruthersville Cotton Oil Co. will build a $15,000 grain elevator.

Kansas City, Mo.—The Duff-Repp Furniture Co. plans the construction of a five-story, 99x132-ft. warehouse on Locust St.

✚Kansas City, Mo.—The SWENSON CONSTRUCTION CO. has been awarded the contract for the construction of a five-story 47x115-ft. concrete warehouse at 2029 Grand Ave. for the Studebaker Wagon Mfg. Co., South Bend, Ind.

Galveston, Tex.—It is reported that plans are being prepared for the construction of a $60,000 cotton storage warehouse for W. L. Moody & Co.

Texas City, Tex.—The Texas City Co., recently incorporated with a capital of $1,370,000, will build an iron and steel plant. Harvey A. Thomas, Texas City, is interestd.

Portland, Ore.—Plans are being prepared by Sutton & Whitney, Arch., for the construction of a two-story warehouse for Mrs. Fannie E. Brown. The estimated cost is $45,000.

Medford, Ore.—The Western Beet Sugar Co. plans the construction of a factory to cost about $600,000. Noted Jan. 28.

FEDERAL GOVERNMENT WORK

★Dredging—Portland, Maine—Bids were received Aug. 16, at the U. S. Engineer Office, Portland, for dredging in the St. Crois River, as follows: Eastern Dredging Co., East Boston, 53.83c. per cu.yd.; Coastwise Dredging Co., Norfolk, Va., 54.25c.; John H. Gerrish, Boston, Mass., 54.7c.; J. S. Packard Dredging Co., Providence, R. I., 66.9c.; Bay State Dredging Co., Ltd., Boston, Mass, 59c. Noted July 22.

★Moving Guard Station—Arverne, N. Y.—Bids will be received until 2 p.m., Sept. 15, by the U. S. Coast Guard, Treasury Dept., Washington, D. C., for moving the Rockway Coast Guard Station. E. P. Bertholf is Capt.

★Coal—New York, N. Y.—Bids will be received until noon, Sept. 24, at the U. S. Engineer Office, Room 707, Army Bldg., 39 Whitehall St., New York, for furnishing and trimming into U. S. dredges during period ending Sept. 30, 1916, 9000 to 25,000 tons of bituminous coal.

✚Dredging—New York, N. Y.—The contract for dredging in Hempstead and Huntington Harbors, N. Y., has been awarded to P. SANFORD ROSS, Jersey City, N. Y., at $15,000. Noted July 15.

Buildings—Ft. Mifflin, Penn.—Bids were received Aug. 21, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of buildings at the Naval Magazine, Ft. Mifflin, (a) shell house, (b) fixed ammunition house, (c) magazine, (d) re-forming plant extension, (e) work complete, all buildings, (f) additional price for each interior bay of shell house, as follows: Penn Bridge Co., Washington, D. C., (e) $67,437, (f) $2300; Edward Fay & Son, 2 South Mole St., Philadelphia, (a) $28,990, (b) $12,990, (c) $12,990, (d) $6990, (e) $61,960, (f) $2000; Charles D. Burns, Norristown, (a) $26,832, (b) $12,997, (c) $12,517, (d) $6044, (e) $55,686, (f) $2259; Monagan & Lasse, Philadelphia, (a) $31,168, (b) $20,527, (c) 19,808, (d) $6556, (e) $65,357, (f) $2146; Edward F. Fonder, Philadelphia, (a) $34,157, (b) $19,996, (c) $19,321, (d) $6400, (e) $67,338, alternate, $56,400, (f) $1590; Charles Gilpin, Harrison Bldg., Philadelphia, (a) $12,587, (b) $5290, (c) $24,998, (d) $11,996, (e) $53,749, (f) $1495; Armstrong & Latta, Philadelphia, (a) $33,421, (b) $16,723, (c) $15,736, (d) $7110, (e) $65,576, (f) $1600. Noted Aug. 12.

Post Office and Courthouse—Harrisburg, Penn.—Bids will be received until 3 p.m., Sept. 28, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for making extensions and remodeling the post office and courthouse at Harrisburg.

★Post Office—Smyrna, Del.—Bids will be received until 3 p.m., Sept. 29, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the post office at Smyrna. Noted Apr. 22.

Barracks—Norfolk, Va.—Bids will be received until 11 a.m., Sept. 25, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a three-story brick marine barracks building at Norfolk. William M. Smith is Act Ch. of Bureau.

✚★Dredging—Norfolk, Va.—The contract for dredging inland waterway from Norfolk to Beaufort, N. C. has been awarded to P. SANFORD ROSS, Jersey City, N. J., at $119,000 Noted July and Aug. 12.

★Dredging and Rock Excavation—Norfolk, Va.—Bids will be received until noon, Sept. 23, at the U. S. Engineer Office, Custom House, Norfolk, for dredging and rock excavation in the James River.

✚Post Office—Quitman, Ga.—The contract for constructing complete the U. S. post office has been awarded to the WESTCHESTER ENGINEERING CO., White Plains, N. Y., at $38,891. Noted June 24.

Attendants' Quarters—Tampa, Fla.—Bids will be received until 3 p.m., Sept. 20, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing attendants' quarters, disinfecting shed, oil house and wharf at the quarantine station at Tampa Bay.

★Machinery—Cincinnati, Ohio—Bids will be received at the U. S. Engineer Office, until 2 p.m., Sept. 24, for furnishing and installing operating machinery, etc., at Dam No. 29, Ohio River.

✚Post Office—Albion, Mich.—The contract for the construction of a post office at Albion has been awarded to the CALLAHAN-MANDL CO., Chicago, Ill., at $52,609. Noted June 24.

Post Office—Ypsilanti, Mich.—Bids were received Aug. 20, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Ypsilanti, (a) limestone; (b) sandstone, as follows: Rogers & Kaiser, Chicago, Ill., (a) $55,768, (b) $59,768; Callahan-Mandl Co., Chicago, Ill., (a) $53,815, (b) $56,000; J. S. Wahlman, Ishpeming, (a) $49,330, (b) $50,685; Westchester Engineering Co., White Plains, N. Y., (a) $55,400, (b) $58,900; George W. Stiles Construction Co., Chicago, Ill., (a) $55,839; Potters' Lumber Co., East Liverpool, Ohio, (a) $56,756; Frank L. Johnson & Co., Duluth, Minn., (a) $48,746; W. G. Carter Co., Chicago, Ill., (a) $53,340, (b) $54,540; James Devault, Canton, Ohio, (a) $57,000, (b) $60,100; Barnes Bros., Logansport, Ind., (a) $54,629; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $54,982; Charles W. Gindele Co., Chicago, Ill., (a) $52,500; A. W. Lane, Chicago, Ill., (a) $56,505; W. H. Fissell & Co., New York, (a) $53,990, (b) $58,800; Christ Kanzler & Son, Evansville, Ind., (a) $58,496; R. S Moore, Lafayette, Ind., (a) $55,590, (b) $60,090; Balkin Construction Co., Chicago, Ill., (a) $53,011, (b) $57,743; Colonial Construction & Supply Co., Charlottesville, Va., (a) $52,497, (b) $57,409. Noted July 15.

✚Breakwater—Chicago, Ill.—The contract for the construction of a rubble mound breakwater in the Chicago Harbor has been awarded to the GREAT LAKES DREDGE & DOCK CO., Chicago, Ill., at $480,000. Noted July 8.

★Structures—Malta, Mont.—Bids will be received until 2 p.m., Sept. 20, at the office of the U. S. Reclamation Service, for structures, Nelson Reservoir South Canal, Milk River Project.

★**Revetment**—Kansas City, Mo.—Bids will be received until noon, Sept. 20, at the U. S. Engineer Office, for constructing about 13,000 lin.ft. of standard revetment on Missouri River, about two miles from Hartsburg, Mo.

✚**Post Office**—Longview, Tex.—On account of the refusal of the contract by V .E. Taylor, Ennis, at $36,250, the contract has been reawarded to GEORGE A. SHAUL, Seneca, Kan., at $38,790. Noted Apr. 29 and June 10.

Post Office—Blackwell, Okla.—Bids were received Aug. 19 by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Blackwell, (a) limestone, (b) sandstone, as follows: George A. Stiles Construction Co., Chicago, Ill., (a) $36,800; Potter's Lumber Co., East Liverpool, Ohio, (a) $39,634, (b) $40,000; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $42,313, (b) $43,313; Algernon Blair, Montgomery, Ala., (a) $36,441; Newport Contracting & Engineering Co., Newport News, Va., (a) $40,615; W. H. Fissell & Co., New York, N. Y., (a) $40,976, (b) $41,776; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $39,505; George A. Shaul, Seneca, Kan., (a) $38,505; W. D. Lovell, Minneapolis, Minn., (a) $41,800; Tom Lovell's Sons, Weatherford, Tex., (a) $41,174. Noted Aug. 12.

Barracks—Mare Island, Calif.—Bids will be received until 11 a.m., Sept. 25, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a three-story, reinforced-concrete marine barracks building at Mare Island. William M. Smith is Act. Ch. of Bureau.

✚**Buildings**—San Diego, Calif.—The contract for the construction of seven buildings at the Naval Radio Station, has been awarded to the JACOBS CONSTRUCTION CO., Los Angeles, at $39,950. Noted Apr. 8 and June 24.

Wharf Extension—San Francisco, Calif.—Bids were received Aug. 21, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for an extension to the receiving ship wharf at the Naval Training Station, San Francisco, extension to be 300 ft. long by 40 ft. wide, and to be of creosoted piles and creosoted braces supporting a timber deck as follows: Hyde, Harjes Co., 110 Market St., $9341; Mervey, Elwell Co., Oakland, $10,975; Tibbetts Pacific Co., 16 California St., $11,980; Thompson Bridge Co., 105 Market St., $9980; San Francisco Bridge Co., 14 Montgomery St., $10,347; C. E. Lamburth 110 Jesse St., $12,650; Healy-Tibbetts Construction Co., 9 Main St., $9730. All bidders of San Francisco unless otherwise specified. Noted Aug. 12.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Sept. 2, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

✚**Dredging**—Pearl Harbor, Hawaii—The contract for dredging at the Pearl Harbor Naval Station has been awarded to the LORD-YOUNG ENGINEERING CO., Honolulu, Hawaii, at $0.43½ per cu.yd. Noted June 24.

Officers' Quarters—Pearl Harbor, Hawaii—Bids were received Aug. 21 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of four wooden officers' quarters at the Naval Station, Pearl Harbor from: Lord-Young Engineering Co., Honolulu, Hawaii, $27,254, and Boller & Ingvorsen, Honolulu, Hawaii, $19,890. Noted July 8.

MISCELLANEOUS

Shore Protection—Boston, Mass.—Bids will be received until Aug. 31 by the Metropolitan Park Commission, for the construction of a concrete shore protection in Revere. John R. Rablin, 14 Beacon St., is Ch. Engr.

Abutments, Etc.—Salem, Mass.—Bids will be received until Aug. 30 by the Rebuilding Commission for building abutments and pile piers for the Congress St. extension. Edmund W. Longley is Chn. of Comn.

✚**Guard Railing**—Hartford, Conn.—The contract for the construction of about 34,009 lin.ft. of wood guard railing in the towns of Columbia, Cornwall, Danbury, Old Lyme, Ridgefield, Rocky Hill, Somers, Waterbury, Wethersfield, Winchester and Woodbury has been awarded to WEBSTER & WEBSTER, East Hartford, Conn., at $6036. Noted Apr. 15.

★✚**Barge Canal Work**—Albany, N. Y.—(Official)—The following are the bids received under Terminal Contract No. 46 for a dockwall and approach on the south side of the Seneca River, west of the Weedsport Bridge: Eastover Construction Co., Utica, $17,736; Scott Bros., Rome, N. Y., $13,658; Oswego Construction Co., Fulton, N. Y., $17,435; Frank M. Skene, Rochester, $15,556; Robert Provo, Syracuse, $14,887; Chesley, Earl & Humback, Buffalo, $14,695; Shaw & Lachon, Jamestown, N. Y., $15,139; M. Fitzgerald, Hoosick Falls, $16,641. The contract for constructing a harbor and dockwall on the south side of the Mohawk River at Canajoharies, under Contract No. 37, has been awarded to HOLLER & SHEPARD, Rochester, N. Y., at $32,572. Other bids were: A. M. Hazell, 90 West St., New York, $36,152; Champlain Engineering Contracting Corporation, Saratoga Springs, N. Y., $38,116; Lupfer & Remick, Buffalo, 3$2,940; Eastover Construction Co., Utica, N. Y., $36,427; American Pipe & Construction Co., Philadelphia, Penn., $36,227. Noted July 29.

★**Subway Station**—New York, N. Y.—(Borough of Bronx)—(Official)—The following are the bids received by the Public Service Commission for the station finish work for parts of the Seventh Ave., Lexington Ave. and White Plains Rd. Transit Railroads: Snare & Triest, $908,864; Post McCord, $1,414,505; Conners Bros., $972,789; Marble Arch Construction Co., $960,373; W. H. Egan, $971,387; Station Construction Co., $944,268; Altoria Realty & Construction Co., 3 East 44th St., New York, $860,636. Noted July 29.

✚**Dredging**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for dredging in Newtown Canal and in the canal and basin included within the boundaries of Johnson Ave., Montrose Ave., Morgan Ave., Varick Ave., and also in the Stagg St. Basin, and in Newton Creek near the intersection of Scott and Metropolitan Ave. has been awarded to JOHN & JOSEPH McSPIRIT, 118 Wayne St., Jersey City, N. J., at $7200. Noted July 29 and Aug. 29.

Ballast—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until 12:15 p.m., Sept. 10, for furnishing the supply of ballast for use in the construction of Rapid Transit Railroads.

Track Supplies—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by the Public Service Commission for a supply of track materials: Tie plates, Type "A"—Herbert W. Lockwood, 260 West St., New York, $123,975; Jones & Laughlin, $125,628; L. D. Rockwell, $132,240; Elyria Iron & Steel Co., $148,770; Pennsylvania Steel Co., $157,035; Lackawanna Steel Co., $165,300; tie plates, Type "B"—L. D. Rockwell, $13,267; Herbert W. Lockwood, $13,496. The following bids are for the supply of special work, Order No. 4, for use in the construction of Rapid Transit Railroads: William Horton, Jr., Co., Inc., $41,907; Pennsylvania Steel Co., $46,684; Ramapo Iron Works, $47,130; for the supply of special work, Order No. 3, for use in the construction of Rapid Transit Railroads: Ramapo Iron Works, 30 Church St., New York, $54,960; Pennsylvania Steel Co., $61,665; William Horton, Jr., Co., Inc., $58,920; cast iron: American Brake Shoe & Foundry Co., 30 Church St., New York, $10,528; Foran Foundry & Manufacturing Co., $13,130; Central Foundry Co., $15,830; Eastern Malleable Iron Co., $21,331. Noted July 29.

Track Materials—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by the Public Service Commission for furnishing untreated ties and timber: J. H. Burton & Co., $1,273,856; Long Leaf Pine Co., Inc., $1,276,858; Alfred R. Sax Lumber Co., $1,332,961; Frawley-Kaufman Contracting Co., $1,612,149; Rapid Transit Subway Construction Co., $1,656,643; Church E. Gates & Co., two bids, $1,852,874, $1,856,746; Hirsch Lumber Co., $2,863,740; treated ties and timber: Long Leaf Pine Co., Inc., $100,362; Eppinger & Russell, $101,484; Republic Creosoting Co., $102,589; Alfred R. Sax Lumber Co., $116,278. Noted July 29.

Fence—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received for erecting a wire fence and setting artificial granite gate posts around Morningside Park: William Werner, $17,450; W. H. Egan, $17,700; Amana & DeBalso, $15,470; L. C. Maxwell Co., $17,760; G. H. Wells Co., $17,760; Kelly & Kelly, $15,900; S. Rosen, $20,200; L. Weschler, $18,290; T. J. Buckley, 303 Fifth Ave., New York, $14,890; Wallade Konop, $13,904 (informal); D. Donegan, $19,760. Noted Aug. 12.

Barge Canal Work—St. Johnsville, N. Y.—The date for receiving bids for construction work at St. Johnsville has been extended to Sept. 14. Noted Aug. 19.

Jetties—Atlantic City, N. J.—According to press reports the City Commissioners have decided to construct two jetties in the Chelsea section.

Fire Station—Secaucus, N. J.—Bids will be received until 8 p.m., Aug. 31, by the Borough Council for constructing a fire station. Adrian Post is Borough Clk.

Flood Protection—Erie, Penn.—The City Council plans to issue bonds for the reconstruction of Mill Creek in the flood area. B. E. Briggs is City Engr.

Improvements to Piers and Bulkhead—(Official)—Philadelphia, Penn.—Bids will be received by John Meigs, Dir., Dept of Wharves, Docks and Ferries, until Aug. 30, for the following: Schedule "A," composition roofing at Race St. pier, Delaware River; Schedule "B," resurfacing with concrete-gun Delaware River, bulkhead wall between Callowhill and South St.; Schedule "C," resurfacing concrete upper decks of Chestnut and Race St. piers on Delaware River.

★**Subway**—Philadelphia, Penn.—(Official)—The following are the bids received for constructing subway and station under Filbert St., City Hall and South Penn Sq.; Foundation Co., $1,763,870; Snare & Triest Co., $2,787,240; Frederick L. Cranford, Inc., and Smith, Hauser & MacIsaac, Inc., $2,404,770; New York & New Jersey Construction Co., $2,486,980; Keystone State Construction Co., Pennsylvania Bldg., Philadelphia, $1,737,320; Arthur McMullen Co., $2,286,060. Noted Mar. 18, July 8 and 15.

Subway—Philadelphia, Penn.—(Official)—The following are the bids received for constructing foundations in Front St., Kensington and Frankford Ave. from Callowhill St. to Unity St.: Edward Fay & Son, $188(278; Robert Lombardi $155,150; Keystone State Construction Co., $185,970; Peoples & Ruch, $235,240; American Paving & Construction Co., $315,640; Oscar Daniels Co., $225,815; Millard & Lupton Co., $273,150; James D. Darney, 204 East Montgomery Ave., Philadelphia, $149,235; New York & New Jersey Construction Co., $290,450; A. L. Guidone & Son, Inc., $202,334. Noted July 15.

Pier—Philadelphia, Penn.—(Official)—The following are the bids received by John Meigs, Dir. of Dept. of Wharves, Docks and Ferries, for the construction of substructure of Pier No. 78 and its adjacent bulkhead shed in the Delaware River, betwen McKean St. and Snyder Ave.: Snare & Triest Co., 233 Broadway, New York, N. Y., $516,700; Daniel S. Bader, Philadelphia, Penn., $539,000; Arthur McMullen Co., 149 Broadway, New York, $554,662; American Paving & Construction Co., Philadelphia, Penn., $569,000; Underpinning & Foundation Co., Philadelphia, Penn., $584,000; Armstrong & Latta Co., Philadelphia, Penn., $610,000. Noted June 24 and July 22.

✚**Dredging, Etc.**—Philadelphia, Penn.—(Official)—The following are the bids received for (a) dredging the Delaware River Channel opposite Port Richmond coal piers and (b) constructing a temporary bulkhead, Schuylkill River: E. H. VARE, Lincoln Bldg., Philadelphia, (b) $65,966 (awarded contract); Pugh & Hubbard, (b) $67,015; Peoples Bros., (b) $83,585; J. E. Brennen, (b) $87,212; Bowers Southern Dredging Co., Galveston, Tex., (a) $103,761; American Dredging Co., Philadelphia, (a) $108,486; Maryland Dredging Co., Baltimore, Md., (a) $111,510. Noted Aug. 5.

Pier—Baltimore, Md.—The Baltimore & Ohio R.R. will erect a coal pier at Curtis Bay to cost about $1,000,000.

✚**Retaining Wall, Bridges, Etc.**—Richmond, Va.—The Administrative Board has awarded the contract for the construction of a concrete retaining wall, two bridges, a covered flume, etc., to SAVILLE & CLAIBORNE, at $55,000.

✚**Dock and Warehouse**—Sanford, Fla.—The contract for constructing a dock and warehouse for the Clyde Steamship Co. has been awarded to S. D. SHINHOLSE, Jacksonville, at about $15,000.

Wharf—Tuscaloosa, Ala.—Press reports state that George Jacob Davis, Jr., has been engaged by the City Commission to prepare plans for constructing a municipal wharf.

Sea Wall—Bay St. Louis, Miss.—Bids will be received by the Board of Seawall Commissioners of District No. 1 for furnishing plans and specifications for a seawall about 8000 ft. long on the beach at Waveland.

Fire Boat Hull—Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, Room 511, City Hall, until noon, Sept. 1, for furnishing a new steel hull for the fireboat "Clevelander" and for installing equipment. Specifications may be obtained of A. A. Benesh, Dir. of Pub. Ser.

Fire Station—Cleveland, Ohio—The City Council will construct a fire station at East 116th and Kinsman Rd., to cast about $17,000. A. A. Benesch, 207 City Hall, is Dir. of Pub. Ser.

Comfort Stations—Columbus, Ohio—Bids will be received until Sept. 7 by George A. Borden, Dir. of Pub. Ser., for the construction of two comfort stations on the state grounds on High St. The estimated cost is $35,000.

Park Improvements—Zanesville, Ohio—The citizens have voted bonds for $26,500 for park improvements. John S. Dennis is City Engr. Noted Apr. 22.

Levee Improvements—Mound City, Ill.—Bids will be received by Charles Christmann, Secy., Rivers and Lakes Comn., 905 State Bldg., until Sept. 1, for levee repairs in Mound City. W. H. Moyers is Engr.

Drainage—Des Moines, Iowa—Jacob H. Harmon, Peoria, Ill., is making a survey for draining 23,000 acres of land in Polk, Jasper and Story Counties. The estimated cost is $400,000.

Levee Improvement—Glenwood, Iowa—Bids will be received by R. E. Humphrey, County Audr., until Sept. 7, for cleaning channel and repairing levees on Pony Creek Ditch. Seth Dean is Engr.

✚**Park Improvement**—Austin, Minn.—Press reports state that the contract for the removal of about 73,000 cu.yd. of earth has been awarded to the GREAT NORTHERN BRIDGE CO., Minneapolis, at 19,95c. per cu.yd.

✚**Ditch**—International Falls, Minn.—The contract for constructing Judicial Ditch No. 15 in Koochiching County, has been awarded by the County Commissioners to the Northern Minnesota Drainage Co., Little Fork, at $57,330.

Ditch—Morris, Minn.—Bids will be received by C. R. Wolltham, County Audr., until Sept 2 for constructing County Ditch No. 15. The estimated cost is $35,889.

Police and Fire Station—West Duluth, Minn.—Plans are being prepared by F. G. German, Arch., Duluth, for the construction of a police and fire station.

Dikes—Kansas City, Kan.—Bids will be received until 10 a.m., Sept. 3, by the Board of Directors, Kaw Valley Drainage District, 719 Osage Ave., Kansas City, for the construction of about 3500 lin.ft. of reinforced-concrete dikes. T. E. Myers is Pres.

Motor Fire Apparatus—Omaha, Neb.—The City Council plans to motorize the fire department; also install a fire alarm system.

Levees—Austin, Tex.—An election will be held soon to vote on a $120,000 bond issue for reclaiming about 120,000 acres in County Levee District No. 2. Arthur A. Stiles is State Reclamation Engr.

Drainage—Waxahachie, Tex.—The Commissioners of Ellis County Drainage District No. 2 contemplate draining about 20,000 acres of land.

Sanitarium, Bath House, Etc.—Manitou Springs, Colo.—The Manitou Mineral Water Co. is having plans prepared for a marble bath house, sanitarium and an open air swimming pool. The estimated cost is $500,000.

✚**Drainage**—Monte Vista, Colo.—The Rio Grande Drainage District Commissioners have awarded the contract for drainage work to ROBERT M. QUIGLEY, Denver, Colo. The estimated cost is $30,000. E. O. Cramer is Secy. Noted July 29.

✚**Steamship**—Seattle, Wash.—The New York & Cuban Mail Steamship Co. has awarded a contract to the SEATTLE CONSTRUCTION & DRYDOCK CO. for the construction of a 6000-ton steel steamship.

✚**Sprinkler System**—Tacoma, Wash.—The contract has been awarded to the PACIFIC FIRE EXTINGUISHER CO., Colman Bldg., Seattle, for the installation of 7000 Grinnell sprinkler heads and a fire protection system in the warehouses and elevators of the Tacoma Grain Co. and Sperry Flour Mills, both at Tacoma, same being combination system for two establishments. Estimated cost, $35,000.

✚**Pier**—Flavel, Ore.—The contract for the construction of an additional pier to the Hill Terminal has been awarded to the J. A. McEACHERN CO., Seattle, Wash., at about $15,000.

Esplanade—San Francisco, Calif.—According to press reports, the City Engineer has completed plans for the construction of an esplanade near the Cliff House to cost about $50,000.

✚**Pier**—San Francisco, Calif.—The State Board of Harbor Commissioners has awarded a contract for the construction of Pier 22, near the foot of Bryant St., to the TIBBETTS-PACIFIC CO., at $48,877.

★**Cemetery Plans**—Cochrane, Ont.—(Official)—Bids will be received until Sept. 15 by the Clerk, for furnishing plans and prices for work in laying out burial plots of a cemetery 466½ ft. by 466½ ft.

BUILDINGS

Other items relative to Building Construction will be found under the following heads: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

✚**Manchester, N. H.**—The contract for the construction of a synagogue for the Congregation Anshay Sfard has been awarded to ALPHONSE GRENIER, to cost about $40,000.

Nashua, N. H.—George Markarian plans the construction of a four-story, brick business block on West Pearl St. The estimated cost is $50,000.

✚**Amherst, Mass.**—The Building Committee has awarded the contract for the construction of a $120,000 high school to the CASPER RANGER CONSTRUCTION CO., Holyoke, Mass. C. P. Hoyt is Arch. Noted Apr. 1.

✚**Dedham, Mass.**—(Official)—Samuel H. Capen, Chn. of Bldg. Com., has awarded the contract for the construction of a high school to L. B. TAYLOR, Athol, Mass., at $103,775. Noted July 26 and Aug. 12.

Fitchburg, Mass.—(Official)—The contract will soon be awarded by W. S. Bullock, for the construction of a theater on Main near Oliver St. George A. Whitney is Arch.

✚**North Grafton, Mass.**—The State Board of Insanity has awarded the contract for the construction of a two-story, 70x114-ft. dining-room and service building at the Grafton Colony to J. P. KEATING, Westboro, Mass.

Southbridge, Mass.—All bids were again rejected by the School Commission for the construction of a high school. The plans will be revised. F. E. Corbin is Secy. of the School Com.

✚**Newport, R. I.**—The DARLING-SLADE CONSTRUCTION CO. has been awarded the contract for the construction of the John Clark school on Mary St., to cost $68,500. Thomas Weaver is Arch. Noted June 3.

Providence, R. I.—Bids have been received for the construction of an 18-room school at Beaufort St. and Mt. Pleasant Ave. as follows: Famiglietti Bros. Co., $148,600; J. W. Bishop Co., $145,829; Norcross Bros. Co., $153,800; Hope Building Co., $144,435; Willmarth-Mackillop, Inc., $149,980; William Hamlyn & Son, $147,900; Charles R. Maguire Co., $133,279; Cruise & Smiley Construction Co., $147,000; Gilbane Building Co., $149,898; William Williams, $144,000. Murphy, Hindle & Wright, 146 Westminster St., is Arch. Noted Apr. 29.

Providence, R. I.—Bids will be received about Sept. 1 for the construction of a 16-room school at Cole and Luzon Aves. Stone, Carpenter & Sheldon, 802 Industrial Trust Bldg., is Arch.

✚**Albany, N. Y.**—(Official)—The contract for the construction of additions and alterations to the State House on Eagle St. has been awarded to the FEENEY & SHEEHAN BUILDING CO., 164 Montgomery St., Albany, at $162,000. Noted Aug. 12.

Albany, N. Y.—Bids will soon be received for the construction of a three-story brick parochial school and convent at Madison Ave. and Ontario St. for St. Vincent de Paul Congregation, Madison Ave. and Partridge St. The estimated cost is $175,000. Noted July 20.

✚**Binghamton, N. Y.**—The PARSONS CONSTRUCTION CO., at $147,775, has been awarded the contract for the construction of a school on Helen and New St. Sanford O. Lacey, 415 Phelps Bldg., is Arch. Noted June 17.

✚**Buffalo, N. Y.**—Contracts for the construction of a three-story, 135x147-ft. infants' home and mortuary building, at South Park Ave. and Ridge Rd. for Our Lady of Victory Church has been awarded to the PROGRESSIVE STEEL CO., Builders' Exchange, Buffalo, for the structural steel and E. S. JORDON, Lackawanna, for the masonry. The entire cost is estimated at $155,000.

New York, N. Y.—(Borough of Manhattan)—Work will soon be started on the construction of a 16-story jail, court and detention home for women at 133 West 30th St. Griffin & Wynkoop, Arch, 30 Church St., has prepared the plans. The cost is estimated at $365,000. Noted Mar. 25.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Emery Roth, Arch., 405 Lexington Ave., for the construction of a 12-story, 107x140-ft. apartment house at 1002-6 Park Ave. for the Fenlo Realty Co. The estimated cost is $450,000.

Rochester, N. Y.—(Official)—Bids will be received about Jan. 1 for the construction of a one- and two-story, 200x250-ft. brick and reinforced-concrete armory on Culver Rd. Noted July 29.

Jersey City, N. J.—Plans are being prepared by C. V. Fairweather, Arch., for the construction of a 12-story apartment building on the Boulevard near Bergen St. for John Swenson.

Trenton, N. J.—A site has been acquired on Taylor St. upon which to construct a chemical laboratory building to be used by the State Geological Survey and by the State Road Department. George S. Drew, State Arch., is preparing plans.

✚**Allentown, Penn.**—The contract has been awarded to OCHS & SONS, at $79,125, for the construction of the Fourteenth Ward Bldg.

✚**Harrisburg, Penn.**—The contract for the construction of a new building at the State Arsenal has been awarded to the BEARD CONSTRUCTION CO., Reading, at $38,480. Noted Aug. 5.

Leighton, Penn.—Contracts will be awarded about Oct. 15 for the construction of a two-story, 122x132 ft. brick and stone school. The estimated cost is $75,000. Edward Z. Scholl, 31 North Sixth St., Reading, is Arch. Noted May 27.

✚**Oil City, Penn.**—The contract for the construction of the Junior High School has been awarded to H. E. SHERWOOD, Oil City, at $96,500.

Philadelphia, Penn.—Bids will be received until Sept. 6 by the State of Pennsylvania Armory Board, Harrisburg, for the construction of a two-story 210x350-ft. armory on 32d St. and Lancaster Ave. Philip H. Johnson, Land Title Bldg., is Arch. Noted May 20.

Philadelphia, Penn.—The lowest bid received for the construction of a two-story, 72x142-ft. brick and stone school in Highland Park was submitted by Daniel McNamee, 1621 North 15th St., Philadelphia, at $46,900. Shore & Dodge, 608 Chestnut St., Philadelphia, is Arch.

Philadelphia, Penn.—Contracts will soon be awarded for the construction of a seven-story 56x100-ft. hospital building with two 44x108-ft. wings at Cedar Ave., between 53d and 54th St., for the Sisters of Mercy. Noted Apr. 1 and July 15.

Philadelphia, Penn.—Bids will soon be received for the construction of a ten-story addition to the Central Y. M. C. A. building on Cherry St.

Philadelphia, Penn.—Work will be started about Sept. 16 on the construction of the Central Free Library at 19th and Vine St. The estimated cost is $3,500,000. Henry R. Edmunds is Pres. of Free Libraries.

✚**Philadelphia, Penn.**—The Board of Inspectors of the Philadelphia County Prisons has awarded the contract for the construction of a two-story 36x43-ft. hospital building, one-story 27x284-ft. ward building, and for alterations to the present building to H. E. BATON, Philadelphia, at $88,870.

✚**Philadelphia, Penn.**—The Pennsylvania R.R. has awarded the contract for the construction of an immigrant station at Washington Ave. and the Delaware River to JOHN N. GILL & CO., Heed Bldg., Philadelphia. The estimated cost is $70,000. Noted July 22 and 29.

Baltimore, Md.—The Hebrew Orphan Asylum, Rayner Ave. and Poplar Grove St., will construct a building to cost $150,000.

Asheville, N. C.—An election will be held Nov. 2 by the City Commissioners to vote on the question of issuing $250,000 in bonds. The proceeds will be used for the construction of schools.

✚**Hayti, S. C.**—The contract for the construction of a county courthouse has been awarded to the GRAY CONSTRUCTION CO., Watertown, at $56,872.

Louisville, Ky.—Plans are being prepared by Brinton B. Davis, Arch., Inter-Southern Bldg., for the construction of a five-story reinforced-concrete office building at Fourth and Market St. for the Bankers' Realty Co. Noted Aug. 19.

Paducah, Ky.—Plans are being considered for the construction of a ten-story steel addition to the Palmer House. The estimated cost is $200,000. John W. Keller is Mgr.

Cincinnati, Ohio—Bids will be received until noon, Sept. 12, by the Clerk of the Board of Education, City Hall, for the construction of a manual training building at the Oyler Public School, Storrs and Burns St. C. W. Handman, 511 West Court St., is Business Mgr.

Cleveland, Ohio—Theodore Schmitt, of Lehman & Schmitt, Arch., Electric Bldg., has purchased a site at Detroit Ave. and West 116th St. upon which to construct a theater, store and office building. The estimated cost is $75,000.

Cleveland, Ohio—The Thompson-Schactel Co. recently incorporated plans to construct a theater and store building at Altoona Ave. and West 35th St., Brooklyn. Estimated cost, $50,000. C. G. Thompson and S. M. Schactel of the Victor Film Service, are owners.

Cleveland, Ohio—Plans have been prepared by Koehl & Van Rensselaer, Arch., 906 Park Bldg., for the construction of a theater on Hower Ave. near Superior St. for W. A. Barnes. Estimated cost, $40,000.

Cleveland, Ohio—Bids are being received by the Cuyahoga County Commissioners for the construction of a three-story detention home for boys at Franklin and West 28th St. The estimated cost is $65,000. William S. Lougee, 500 Marshall Bldg., is Arch. Noted Mar. 25 and July 1.

Cleveland, Ohio—Plans have been prepared by O. K. Stapf, Arch., 1017 Rose Bldg., for the construction of a three-story addition and alterations to the Chamber of Industry Bldg., at Franklin and West 25th St. Estimated cost, $40,000.

Cleveland, Ohio—The Directors of the Hollenden Hotel Co., Superior and East Sixth St., contemplate the construction of a 13-story addition on East Sixth St. and Vincent Ave. The cost is estimated at $200,000.

Cleveland, Ohio—J. H. Donahey will construct a three-story building at 2002 Euclid Ave. The estimated cost is $50,000.

✚**Cleveland Heights, Ohio**—(Warrensville post office)—(Official)—The contract for the construction of a grade school has been awarded to JAMES H. WELLS, Marshall Bldg., Clevland, at $70,167. Noted July 22.

Cleveland Heights, Ohio—(Warrensville post office)—The Cleveland Telephone Co., Telephone Bldg., Cleveland, plans to construct an exchange building on Cedar Rd. to cost about $50,000.

Crawfordsville, Ind.—Bids will be received until 1 p.m., Aug. 28, by E. W. Rean, School Trustee, for extending the wings of the high school building.

Hammond, Ind.—The Board of School Trustees has rejected all bids received Aug. 2 for the construction of the Hammond Industrial High School. The plans are being revised by J. T. Hutton & Sons, Arch., Hammond Bldg., and new bids will be received until Sept. 1. Noted July 29.

Detroit, Mich.—Plans have been prepared by Albert Kahn, Arch., Detroit, for the construction of a three-story temple at Lafayette Blvd. and Cass Ave. for the Detroit Lodge No. 34, B. P. O. E. The estimated cost is $150,000.

Detroit, Mich.—Plans have been prepared by Smith, Hinchman & Grylls, Detroit, for the construction of an eight-story addition to the building of Crowley, Milner & Co., at Monroe and Library Ave. The estimated cost is $100,000. Noted July 22.

Monmouth, Ill.—Plans prepared by Temple & Burrows, Arch., McManus Bldg., Davenport, Iowa, for the construction of a two-story city hall, have been accepted. The estimated cost is $50,000. Noted Aug. 19.

Milwaukee, Wis.—Plans are being prepared by Fernekes & Creamer, Arch., 1304 Pabst Bldg., for the construction of an addition to the armory of Troop A, Wisconsin National Guard. The estimated cost is $40,000. Noted July 8.

Milwaukee, Wis.—The Board of Education contemplates an expenditure of $1,100,000 for the construction of school buildings throughout the city.

Milwaukee, Wis.—Bids will be received about Sept. 15 for the construction of a three-story brick and stone addition to the West Dixision High School, 23d and Prairie St. The estimated cost is $50,000. Van Ryn & De Gelleke, 726 Caswell Block, is Arch. and Frank M. Harbach is Secy. Bd. of School Dirs. Noted Aug. 19.

St. Croix Falls, Wis.—Bids will be received until 5 p.m., Aug. 31, by J. C. Heglund, Village Clk., for the construction of auditorium buildings. Hartford & Hausler, St. Paul, Minn., is Arch.

✚**Superior, Wis.**—The contract for the construction of a church and parochial school for the St. Stanislaus [illegible]ish Catholis Parish has been awarded to R. J. CHENEY, at [illegible]701.

West Allis, Wis.—Preliminary arrangements are [illegible]ing made by the Holy Assumption congregation for the con[illegible]uction of a church and parish house. The estimated [illegible]t is $50,000.

Charter Oak, Iowa—Bids will be received until Sept. [illegible] by the Board of Education for the construction of a two-[illegible]tory brick school. The estimated cost is $45,000. Edward L. [illegible]Barber is Arch. Noted July 22.

✚**Des Moines, Iowa**—The contract for the construct[illegible] of a 12-story reinforced-concrete hotel for M. Brown has [illegible]een awarded to J. C. MARDIS. The estimated cost is $150,[illegible]

Des Moines, Iowa—Plans are being prepared by N. T. Verse, Arch., Des Moines, for the construction of a brick building for the Grocers' Wholesale Co. The estimated cost is $[illegible],000. Noted July 29.

Grinnell, Iowa—(Official)—At a recent election the citizens defeated the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a high school. Noted July 29.

✚**Sheldon, Iowa**—The contract for the construction of the O'Brien County Courthouse has been awarded to J. E. LOVEJOY, Des Moines, at $118,312.

✚**Milaca, Minn.**—The contract for the construction of a two-story high school has been awarded to STROMBERG & SAMUELSON, Milaca. Estimated cost, $40,000. Noted June 17.

Winner, Neb.—Plans are being prepared by John Latenser, Arch., 626 Bee Bldg., Omaha, for the construction of a school. The estimated cost is $40,000. Noted June 24.

✚**Casper, Wyo.**—The contract for the construction of the Chicago, Burlington & Quincy R.R. depot has been awarded to GEORGE W. STILES, Chicago, Ill., at $87,000.

✚**Butte, Mont.**—The contract for the construction of additions and alterations to the high school has been awarded to H. L. HANSON, Butte, at $94,640. Noted May 20.

✚**Miles City, Mont.**—(Official)—The contract for the construction of an addition to the high school has been awarded to the EDWARD SEERIE CO., Billings, at $47,242. Other bids were: Cleanman & Co., Miles City, $47,450; Horton & Willits, Great Falls, $49,480; Lloyd Construction Co., St. Louis, Mo., $51,353; N. P. Nelson, Miles City, $51,300; W. G. Reed, Dillon, $51,475. Noted July 22.

Kansas City, Mo.—E. W. Shields, Kansas City, will construct a five-story commercial building at 2029 Grand Ave. The estimated cost is $80,000.

St. Louis, Mo.—Plans are being prepared for the construction of a brick and steel church at Margatetta and Fair Ave. for the Independent Evangelical congregation. The estimated cost is $70,000. A. Meyer, Central National Bank Bldg., is Arch.

Cleveland, Tex.—Bids will be reecived until noon, Aug. 28, by G. O. Bartle, Pres., School Bd., for the construction of a brick and concrete school. Noted June 17.

✚**Pharr, Tex.**—The contract for the construction of a high school has been awarded to CRAWFORD & HORN, Yookum, at $48,000. M. L. Weller Co., Ft. Worth, is Arch.

Salt Lake City, Utah—Plans have been prepared and bids will soon be received by the School Board for the construction of the Granite High School. The estimated cost is $45,000. Cannon & Fetzer, 506 Temple Bldg., is Arch.

✚**Davenport, Wash.**—The contract for the construction of a two-story brick school has been awarded to JAMES SHERIDAN, Spokane, at $40,000. Noted July 1.

Grand Mound, Wash.—Bids will be received until Aug. 31 by E. S. Emigh, Secy., State Bd. of Control, Olympia, for the construction of a two-story concrete and brick building at the State School for Girls. The estimated cost is $60,000. Noted Aug. 5.

Mt. Vernon, Wash.—At a recent election the citizens voted to issue $60,000 in bonds, the proceeds of which will be used for the construction of a school.

Seattle, Wash.—Bids will be received about Sept. 1 for the construction of the five- and eight-story buildings at Westlake, Fourth, Stewart and Olive St. The estimated cost is $500,000 and $850,000 respectively. Bibb & Gould, Denny Bldg., is Arch.

✚**The Dalles, Ore.**—The contract for the construction of terminal buildings for the Oregon, Washington R.R. & Navigation Co. has been awarded to NETTLETON, BRUCE & ESHBACH, Seattle, Wash. The cost is estimated at $100,000. Noted June 24.

✚**Portland, Ore.**—The contract for the foundation work of the construction of the First National Bank Bldg. has been awarded to F. H. MILES. The estimated cost of the entire building is $400,000. Noted Apr. 29.

✚**Los Angeles, Calif.**—FRED W. SIEGEL has been awarded the contract for the construction of the two-story 150x170-ft. building on Wilshire Blvd. for the Marlborough School for Girls. The estimated cost is $70,000. John C. Austin, 1125 Baker-Detwiler Bldg., is Arch.

Los Angeles, Calif.—Preliminary plans are being prepared by George Low, County Supt. of Const., for the construction of an eight-story, 110x175-ft. building at Temple and New High St. The estimated cost is $350,000.

Pasadena, Calif.—Plans are being prepared by Elmer Grey, Arch., for the construction of a three-story chemical laboratory for the Throop College of Technology. The estimated cst is $60,000.

San Bernardino, Calif.—Plans are being prepared by Jeffrey & Schafer, Arch., Wesley Roberts Bldg., for the construction of a building for the First Congregational Church. The estimated cost is $50,000.

Santa Clara, Calif.—The San José Film Co. contemplates the construction of a motion-picture studio. The estimated cost is $40,000. Ellis & Skilling, San José, is Arch.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PRICE CHANGES AND THE BUSINESS OUTLOOK

General improvement in trade has continued throughout the month of August with practically no diminution of volume in any line, and in many branches of industry, there has been a distinct quickening. In fact in so many varied endeavors has the improvement been marked, that it may be said to be general. It is of course less in evidence in the engineering and contracting field than in any other, for in these fields of large enterprises, things always move slowly.

Special activity is noted in the iron trade. The leading manufacturer of iron and steel is operating to 90% of capacity, some of the smaller companies are practically at a maximum. It is evident that the steel makers have entered on a period of prosperity, and from the number of orders booked for future delivery, and the premiums paid for prompt shipments, it is more than likely that this boom will continue for many months at least. An ambition program of steel mill construction and extensive improvement has started by manufacturers in and around the Youngstown district, and in the South, too, there is more activity. It is evident that some steps are being taken to bring to New York harbor some of the iron minufacturing of the country.

In the general trade there has been many lines of improvement which is encouraging. The market for securities showed a decided improvement, and as this is often taken as an indication of other improvements, the omen is considered a good one. Manufacturers of other lines of material report more business. The lumber trade shows a slight improvement. In the cement industry, the new prices seem full maintained.

New enterprises are springing up in all parts of the country. Efforts are being made to stimulate many lines of manufacture such as were never before thought of in this country, and should the manufacturers of Europe be so occupied with other affairs for another year or more, they will find a large part of their business controlled by United States manufacturers. It is especially noticeable that foreign trade in the United States is increasing by leaps and bounds, particularly export business. While a large share of this is to the belligerent nations in Europe, there is still enough business to South America and other parts of the globe where men are occupied in peaceful pursuits to indicate that American manufacturers are at last securing a fair foothold.

The outlook for crops is most excellent. A large wheat crop is already assured. Corn crops will also be satisfactory, and from present indications it is evident that the cotton crop will be large enough to cause some trouble in handling to the growers.

Buying by the railroads has been light. They have steadfastly kept out of the market, and even the more prosperous trunk lines are unwilling to make expenditures for improvements until it is determined just how far legislation is going to effect them.

Trade in munitions of war in all lines is especially active. The machine shops that make munitions and supplies for the warring nations have all the business they need.

Financial conditions were scarcely ever more satisfactory to American manufacturers, and the promotion of many American enterprises has been successful. There is a plethora of gold in the country to be used as a basis for obtaining credit, and the only difficulty seems to be that credit may be established more rapidly than actually needed. It is to be remarked in this connection, however, that the bankers seem disposed to put a curb on any but sound enterprises, and even these cannot be financed by borrowed money.

Construction of subways and rapid transit railway extensions in New York continue without any halt. The amount of labor necessary can be obtained. The supply of labor seems sufficient for all needs, and although there have been several strikes during the month, most of them have occurred in plants where munitions of war are being manufactured, and in places where, due to unusual circumstances, there was a great demand for labor. The general rough labor supply seems unusually large.

The metal trade suffered a severe reverse during the month, the price of copper being slightly reduced, spelter dropping down and other metals losing prices almost as fast as they gained in the early spring. Toward the end of the month, a steady demand was evident, and it seems likely that the low spot was reached during the last half of the month.

CEMENT, LIME AND BRICK

Portland Cement—Business continues fairly active and there has been an increase in price. In New York to contractors it is now $1.57, including the charge for bags. For contractors the following prices are for cargo lots and include the usual charge for bags:

Chicago	$1.56	Boston	$1.72
Detroit	1.65	Cleveland	1.69
Jersey City	1.51	Duluth	1.86
New York	1.57	Minneapolis	1.83
St. Paul	1.83	Pittsburgh	1.56

Brick—The market shows firmness. There have been some labor troubles at Haverstraw but shipments continue as usual. The demand has strengthened and prices have increased. Quotations in New York are $5.75 to $6.

Labor—There seems to be an exceptional demand for unskilled labor for highway and railway work. Formerly a charge of $1.65 to $1.75 was made for such work, but now such men are scarce at $2. This is for a 10-hr. day. Due to the volume of work handled by the machine shops in this country, labor of this type is practically impossible to secure at from $3.50 to $4.50. Under ordinary conditions such could be had at from $2.50 to $3.50. There is scarcely any call for building laborers.

Crushed Stone—Among the principals in this field there seems to be a lot of price cutting. In fact, there is so much of this being done that dealers hesitate at quoting any price as firm. Bids on the Public Service contract calling for 300,000 yd. of ballast showed such a wide range of difference that as a result all bids were rejected. This contract is now being readvertised and bids will be opened on Sept. 10. In general, it may be said that business is fair. Quotations have been made as low as 60c. on several contracts. A rumor has been floating around to the effect that several of the larger companies were about to merge with the view of creating a more stable market.

IRON AND STEEL

Pig Iron—A rapid increase in the demand not only for steel-making irons but for foundry irons was evidenced all through the month, and at the end premiums were paid for early deliveries of steel-making irons, manufacturers having refused to take orders for prompt shipments unless some business was included in it, and many of them refused to quote on any 1916 business. As an example, some of the manufacturers in the Birmingham district demanded as high as $12.50 for 1916 shipments. Not more than two months ago, No. 2 Southern Birmingham was selling at $9.50. Steel-making iron advanced just as rapidly. There is a very small accumulation of iron, and practically all the producing factories in the country are manufacturing iron, but in spite of this, consumption is more rapid than production. Prices are considerably higher than last month, and in lots of 100 tons and over prices are as follows: Cincinnati Southern Foundry No. 2, $13.90 to $14.40; Cincinnati Northern Foundry No. 2, $16.26 to $16.51; Cincinnati Northern Foundry No. 3, $15.01 to $15.26; New York Northern Foundry No. 2 plain, $15.25 to $15.50; New York Southern Foundry No. 2, $15.75 to $16; New York Northern Foundry No. 2, $15.50 to $15.75. In Chicago, Northern Foundry No. 2, $13.50 to $14; in Birmingham, Southern Foundry No. 2, $11 to $11.50. In Pittsburgh, bessemer iron is $16.45 and basic is $15.45. These quotations include the freight charge from the valley to the Pittsburgh district.

Steel Rails—Business is slack. Domestic demand is very small and the foreign demand is not anywhere up to the capacity of the country. Railroads have bought very sparingly, and there is little prospect that they will buy much more for this year's delivery. Improvements are being made in rolling-mill construction, and one of the subsidiaries of the United States Steel Corporation is building a mill which will be able to roll sections up to 150 lb. per yd. The Russian order was finally placed, and this calls for a thousand tons a day until the entire order of 75,000 tons is placed. Quotations are without change, and for lots of a thousand tons or over prices are as follows: Standard sections of bessemer are $28; openhearth, $30; both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per ton; in 60-ft. lengths, $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh, for large lots, prices given in cents per lb., ars as follows: Standard sections, bessemer, 1.25c.; openhearth, 1.34c.; 20- to 30-lb., 1.125c.; 15- to 20-lb., 1.175c.; 12- and 14-lb., 1.225c.; 8- and 10-lb., 1.275c.

Track Supplies—The chief interest in the market for track supplies has been the Russian order for 75,000 kegs of spikes, which are slightly different from the ordinary American spikes, and so far the samples have not met the requirements of the engineers. It is evident, however, that they will be met. This buying has been sufficient to advance quotations. Spikes are now held at $1.60 per keg. Track bolts and square nuts are 1.90 to 2c., both in carload lots. Angle bars are quoted at the unchanged price of 1.50c., Chicago. These prices are given in cents per lb. Tie plates are $2 per ton higher and $28 per net ton f.o.b. the mill in the Chicago district.

Structural Materials—Business shows a gain. The Bridge Builders Society reports its operations as about 80% of the capacity of the American shops. A great deal of business has been taken during the last few months. There have been rush orders for mill building, and some of these have been fabricated with astonishing rapidity. Railroads are building some bridges, and there has been quite a little state and county work, but the heavy bridge building and the large office buildings have been conspicuous by their absence. Prices are a dollar per ton higher than last month, and are as follows: I-beams 3- to 15-in., channels 3- to 15-in., angles 3- to 6-in., T's 3-in. and over, are 1.30c. Cutting to specified lengths is charged at the following rates: 2 ft. to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cutting to specified lengths above 3 ft. In Philadelphia, the base price is $1.51; in San Francisco, $2.15; in New York, $1.52. All of these quotations are per 100 lb.

Plates—The mills rolling plates have had considerable business for shipbuilding yards, but as yet there has been very little business booked by car manufacturers. Makers of riveted water pipe have also shown little disposition to come into the market. There seems to be every indication that the shipyard capacity of the country, especially on the Atlantic Coast, will be increased in the near future, and the manufacturers of plates are looking forward to the next session of

Congress with considerable interest, to say the least, in an endeavor to ascertain what the program of naval construction will be. Prices are higher, as follows: Minimum, Pittsburgh, $1.30. This is equivalent to $1.44 Chicago, $1.51 Philadelphia and $1.47 New York. The above quotations are per 100 lb.

Pipe—Prices hold fairly steady. The market for galvanied pipe has diminished slightly, resulting in an increased discount. For carload lots f.o.b. Pittsburgh, the discounts are as follows:

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	63½%
2½- to 6-in. steel, lap welded	78%	62½%
7- to 12-in. steel, lap welded	76%	58½%

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in	2.43	4.19	5-in	32.56	55.50
1-in	3.57	6.20	6-in	42.24	72.00
1¼-in	4.83	8.39	7-in	57.12	98.77
1½-in	5.77	10.03	8-in	60.00	$1.03
2-in	7.77	12.55	9-in	82.80	1.43
2½-in	12.87	21.93	10-in	98.99	1.70
3-in	16.83	28.68	11-in	$1.11	1.92
4-in	23.98	40.87	12-in	1.21	2.10

Cast-Iron Pipe—The exceptional demand for pig iron has caused some concern among the pipe manufacturers and there is a hesitancy to quote on deliveries running into 1916. Although municipal contracts have not been so numerous, manufacturers are fairly busy. Prices are firm and $1 higher in some markets. In New York prices are steady, 6-in. pipe, Class B, being quoted at $23.50 to $24, Class A pipe $24.50 to $25; and the same price applies to gas pipe. In Birmingham quotations f.o.b. yard are as follows: 4-in., $21.50; 6-in. and upward, $19.50. Gas pipe is $1 per ton higher. In Chicago 4-in. pipe is $26; 6- to 12-in., $24; 15-in. and upward, $23.50.

Old Materials—Continued activity characterizes the market. Prices are still climbing upward, and some of the specialties have jumped as high as $2 to $2.25 per ton. Dealers in New York furnish quotations as follows:

	Per Gross Ton
Heavy-melting steel scrap	$12.00 to $12.25
Pipes and flues	7.50 to 7.75
No. 1 railroad wrought	13.50 to 14.00
Stove plate	9.75 to 10.00
No. 1 machinery cast	12.75 to 13.00
Wrought turnings	7.50 to 7.75

In Chicago the advance in prices has been so decided and such rapid sales were made that it is believed that business in this line has about reached a turning point, and at present general conditions point to an easier market. The Steel Corporation has made a purchase of 10,000 tons of steel for its Duluth plant. Some of the railroads have made very large purchases of railroad scrap, and current quotations are $11.75 to $12.25. In the Chicago market quotations have made a decided advance over last month, as follows:

	Per Gross Ton
Heavy-melting steel scrap	$11.75 to $12.25
	Per Net Ton
No. 1 railroad wrought	$11.00 to $11.50
No. 2 railroad wrought	10.50 to 10.75
No. 1 cash scrap	10.00 to 10.50
Pipes and flues	8.75 to 9.25
Agricultural malleable	9.00 to 9.50
Railroad malleable	10.50 to 11.00

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

5/16 in.	$7.50	½ and 9/16 in.	$3.00
¼ in.	4.95	5/8 and 11/16 in.	2.90
7/32 in.	3.95	¾ and 13/16 in.	2.80
3/8 in.	3.40	7/8 and 15/16 in.	2.70
7/16 in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
5/16-in. and ¼-in.	$1.50	$2.00
7/16-in. and larger	1.25	1.75

Wire Rope—Business is good, but prices for galvanized rope are unchanged. Discount off list for galvanized is 40 and 5%; for bright it is 55 and 5; and special brands of bright are sold at 50 and 5. At the above discounts the net price of wire rope at the mills is as follows:

Diameter in Inches	Price per Foot Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
½	0.06	0.07	0.08

Merchant Steel—A number of small orders are cropping up and business shows an increase. In most of the following shapes there have been decided advances in price. The following are quotations from jobbers' store:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ¾ to 1 in.	1.85
1½ to 4 in. x ¼ to 5/16 in.	2.05
Norway bars	4.00
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	2.05
1 to 6 in. x ⅜ to 1 in.	2.05
1 to 6 in. x ¼ and 5/16	2.20
Rods—⅝ and ½ in.	2.15
Bands—1½ to 6x 5/16 in. to No. 8	2.35
Beams and channels—3 to 15 in.	2.10
Angles:	
3 in. x ¼ in. and larger	2.10
3 in. x 5/16 in. and ⅛ in.	2.25
1½ to 2¾ in. x 5/16 in. and thicker	2.20
1½ to 2½ in. x ⅛ in.	2.30
1 to 1¼ in. x 5/16 in.	2.30
1 to 1¼ in. x ⅛ in.	2.35
Tees:	
1½ to 2½x¼ in.	2.25
1½ to 2½x5/16 in.	2.35
3 in. and larger	2.20

Triangle Mesh—Prices over last month remain unchanged, the following quotations, however, being approximate:

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.140	1.48	1.80	1.64	1.96
35	0.109	1.17	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—Although the demand for structural shapes is rather slack at the mills, the market is still very strong because of the number of orders for war supplies. In the Pittsburgh district there has been an exceptional volume of business for the warehouse men, and the price as a result has jumped. In New York no improvement is noticeable and the quotations remain the same as a month ago. Prices are as follows:

Size	Cents per Pound—Mill Shipments, Pittsburgh	*Warehouse, Pittsburgh	Delivered from Warehouse, New York
¾ in. and longer	1.30	1.65	2.05 to 2.10
⅝ in.	1.35	1.70	2.10 to 2.15
½ in.	1.40	1.75	2.25 to 2.30
⅜ in.	1.55	1.90	2.35 to 2.40
¼ in.	1.80	2.15	2.70 to 2.75

*Bars from warehouse are cut to desired length without extra charge. These prices are for carload lots.

Steel Sheet Piling—Conditions are unchanged and prices remain steady at 1.55 to 1.60 per 100 lb. f.o.b. Pittsburgh.

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.; Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30c.; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 80c

CLAY PRODUCTS

Flue Lining—There has been no improvement in business over last month, and prices remain unchanged, with a discount of 80% off list. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.07	8½x18-in.	45	$0.18
4½x13-in.	20	0.09	13x13-in.	45	0.17
7x7-in.	15	0.08	13x18-in.	57	0.24
8½x8½-in.	18	0.09	18x18-in.	75	0.40
8½x13-in.	28	0.13			

Sewer Pipe—With the close of the summer season near at hand there seems to be an improvement in the demand for this material. However, the following discounts still remain effective: On 3 to 24 in., 82% off list; 27 to 30 in., 72%; 30 to 36 in., 67%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

METALS

Copper—Dullness prevailed in the copper market during the greater part of the month. This condition was caused, no doubt, by the excessive production and the falling off in demand. Prices were pressed steadily during the greater portion of the month until the quotations for electrolytic reached 16c. For two months consumers neglected the market to such an extent that the price receded from over 21c. to 16c. During the last days of the month electrolytic copper advanced 18c. for botn spot and 30 days delivered, but inquiry failed to reveal any great volume of business done at the high price. Numerous small transactions were reported, but most of the buyers were speculators. Some inquiries for round lots from domestic consumers were in evidence, but no large transactions were consummated. In some quarters it is intimated that the increase in price from 16c. to 18c. was a result of manipulation on the part of producers who have come to the conclusion that the metal must be supported until production can be curtailed.

Tin—While fluctuations in the tin market during August were not marked, in general the tendency towards lower quotations showed a strong undertone. In some quarters improvement in the demand for both spot and future metal is expected, it being felt that the August statistics will show a smaller visible supply with heavier deliveries into consumption. Arrivals into this market during August amounted to 3841 tons and stocks afloat for ports in the United States amount to 4439 tons. The price of tin at the beginning of the month was 35c. and at the close the quotation was the same, although during the interval prices had been as low as 33¼c.

Lead—Until late in the month prices for lead were steadily downward. The month opened with a market quotation of 5.75c., but by the middle of the month prices were depressed to 4.5c. per pound. Buying was limited to small quantities and producers failing to observe renewed orders from foreign sources and manufacturers of war munitions began throwing stock on the market. Consumers did not evince much interest even at the lower prices until well towards the end of the month, when an abrupt change took place and prices advanced rapidly to 4.75c. Consumers became interested as usual when prices advanced, and while production is reported to be in excess of the demand it is felt among sellers that the surplus will be easily absorbed.

Spelter—There was a steady decline in spelter during the entire month until the last week, when quotations were advanced sharply. The spot price at the beginning of the month was 19c. and the decline continued until 11c. was the ruling basis for trading. However, during the last week of the month a fairly good demand brought an upward turn and the market closed strong at 15c. The impression prevailed that a short interest had attempted to cover and found extreme difficulty without paying advancing prices. But this element did not account for all of the rise, and no doubt consumers and speculators contributed their share in the change of prices and sentiment.

Old Metals—During the month old metals have been strong and fairly active. The selling prices are quoted approximately as follows, in cents per pound:

Copper, heavy cut and crucible	15⅞
Coper, heavy and wire	15⅜
Copper, light and bottoms	14⅛
Heavy machinery composition	12⅜
Brass, heavy	10¼
Brass, light	9½
No. 1 clean brass turnings	13¾
No. 1 composition turnings	11¾
Lead, heavy	4¾
Tea lead	4
Zinc scrap	11⅝

MISCELLANEOUS

Swedish (Norway) Iron—The market at present is practically exhausted. Efforts are being made by some of the dealers to pick up any small lots obtainable, but with little success.

Asphaltum—Through the South and Middle West there has been a considerable amount of business. One of the leading interests has started a new plant in Louisiana to aid in supplying these sections. Due to the increased volume of work and the strong demand for Mexican asphalt petroleum, the price has been increasing. At present sheet paving asphalt per ton in packages f.o.b. refinery is quoted at $13 to $15.

Blue Stone—Dealers were able to maintain the same prices during the month, due to the fact that production was decreased. Some of them cut a cent or two on the present prices, but the following are fairly steady: Bronx flagging sells at 17c. per sq.ft. and Manhattan, 18c. per sq.ft. Curbing 5x16 in. sells at 40c. per lin.ft., 5x20 in., at 45c.; sewer bottoms 5x5 ft. by 3 in. at 25c. per sq.ft.; Belgian bridging 5x24 in., 65c., per lin. ft.

Railway Ties—One of the larger interests closed contracts with two or three of the principal roads, and it is now believed that conditions have reached the turning point and business will improve. There have been a number of European inquiries received but few orders are coming from the other side. Freight rates are still high, which tends to hold prices at about the following level: First-class standard ties 7x9 in. by 8 ft. 6 in. sell at 73c.; 6x8 in. by 8 ft. at 61c., these prices being f.o.b. New York.

CATALOG NOTICES

Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Bulletin Catalog No. 115. Simplex jacks. Illustrated, 24 pp., 6x9 in.

Chicago Pneumatic Tool Co., Fisher Building, Chicago, Ill. Bulletin No. 130. Lubrication of Pneumatic Tools. Illustrated, 8 pp., 6x9 in.

Burd High Compression Ring Co., Rockford, Ill. Directory of piston ring sizes for trucks, tractors, engines, etc. Illustrated, 134 pp., 4½x7 in.

Studebaker Corp., South Bend Ind. Catalog No. 1005. Bottom dump wagons and dump boxes. Illustrated, 32 pp., 5x8 in.

Kaustine Co., Inc., Ellicott Square, Buffalo, N. Y. Catalog. Kaustine private sewage disposal systems. Illustrated, 16 pp., 6x9 in.

Sweet's Steel Co., Williamsport, Penn. Catalog. Light and heavy steel tee rails, angle bars, concrete reinforcing bars, etc. Illustrated, 10x12 in.

The Globe Iron Roofing & Corrugating Co., Cincinnati, Ohio. Catalog H. Sheet metal building materials. Illustrated, 166 pp., 7x10 in.

The Raymond W. Dull Co., Chicago, Ill. Catalog. Sand and gravel washing plants. Illustrated, 80 pp., 7x10 in.

American Pulverizer Co., East St. Louis, Ill. Catalog No. 21. Pulverizers, air separators. Illustrated, 12 pp., 3½x9 in.

Berlin Mills Co., Portland, Maine. Pamphlet. "Structural Wood and its Preservation from Decay." Illustrated, 26 pp., 6x9 in.

J. W. Fiske Iron Works, 78-80 Park Place, New York. Catalog. Wrought iron railing entrance gates, wire fencing. Illustrated, 64 pp., 8x10½ in.

Lea-Courtney Co., Newark, N. J. Catalog H-2. Centrifugal pumps. Illustrated, 64 pp., 6x9 in.

Cornell Iron Works, 26th St. & 11th Ave., New York. Catalog. Rolling steel shutters. Illustrated, 16 pp., 6x9 in.

The Emerson Pump & Valve Co., Alexandria, Va. Catalog. Steam pumps. Illustrated, 79 pp., 6¼x9½ in.

Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Catalog. Simplex Jacks. Illustrated, 23 pages, 6x9 in.

INDUSTRIAL NOTES

Charles B. Burger, Principal Assistant Engineer to George W. Fuller, Consulting Engineer, 170 Broadway, New York, has resigned to accept a position as Consulting Engineer with the Atlantic Refining Co., Philadelphia, Penn.

The Keuffel & Esser Co., Hoboken, N. J., has been awarded the Grand Prizes at the Panama Pacific International Exposition, for its exhibit of drawing materials, slide rules, surveying instruments, telescopic sights and periscopes.

The Pacific Tank & Pipe Co., Portland, Ore., has changed its name to the National Tank & Pipe Co. The personnel of the new corporation remains the same, and the business policy of the company will be directed along the same lines as it has been during the past.

Arthur M. Torrey, formerly with the soliciting department of Hildreth & Co., recently resigned to take charge of the Engineering Contract Department of W. S. Barstow & Co., 50 Pine St., New York.

The Virginia Bridge & Iron Co., Roanoke, Va., has opened a branch office in the First National Bank Bldg., Denver, Colo. A. R. Peyton, who has been associated with this company for some years as Contracting Engineer, will be in charge.

The Duff Mfg. Co., Pittsburgh, Penn., is building an extension 125x150 ft. to its main factory. A five-ton bridge transfer crane and monorail conveying system is also being installed.

The New Process Gear Corporation has recently acquired the plant of the Monarch Typewriter Co., Syracuse, N. Y. Alterations to this plant will be made so as to devote its use to the manufacture of automobile differentials. C. G. Meachem is Vice-Pres.

The Nelson-Blank Mfg. Co., manufacturing machinist, Clay and Dubois St., Detroit, Mich., has consolidated with the American Pattern Works. The new concern will continue in the manufacture of wood and metal patterns, the Nelson Two Spindle Adjustable Drill Head, and will also machine all kinds of automobile parts. Joseph F. Buhr is Mgr., and Arne T. Nelson is Supt.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Worcester Consolidated St. Ry.—This company has applied to the City Council for a franchise to relocate its track on Main St., Westborough. H. C. Page, Worcester, is Gen. Mgr.

New York, N. Y.—(Borough of Brooklyn)—Brooklyn Rapid Transit Co.—According to press reports this company has been granted a franchise to construct a two-track street railway on Atlantic Ave. from Flatbush Ave. to Shepherd Ave., about five miles. A connection will be made with the existing tracks at Atlantic and Fifth Ave.

New Jersey—Public Service Ry.—This company will construct a railway from Port Reading Junction to Carteret, via Chrome. The proposed line will connect with the Newark-Perth Amboy Fast Line. R. E. Danforth, Newark, is Gen. Mgr.

Maryland—Cumberland Valley R.R.—According to press reports this company plans to expend approximately $1,000,000 for the improvement of its line in Hagerstown. T. B. Kennedy, Chambersburg, Penn., is Engr. Noted Mar. 25.

Maryland—Mayor Preston has presented a plan to the City Planning Commission for a municipal electric belt railway connecting with the lines of the Pennsylvania, Baltimore & Ohio, Western Maryland and Maryland & Pennsylvania R.R. in Baltimore, also for a new Union Station at the Fallsway and Biddle St. and a tunnel system. William H. Maltbie and Daniel B. Banks are interested.

West Virginia—Kanawha Valley Traction Co.—This company has applied to the City Council for a franchise to double track its line on Murdock Ave., Parkersburg. S. Miller Gallaher, Charleston, W. Va., is Pur. Agt. and Ch. Engr.

West Virginia—Monongahela Traction Co.—This company contemplates the construction of an extension from Fairmont to Glenville. S. B. Miller, Fairmont, is Ch. Engr.

North Carolina—Central Carolina R. R.—Surveys are being made by this company for the construction of a railway from Lillington to Swansboro, N. C., about 125 miles. W. J. Edwards, Sanford, N. C., and J. R. Baggett, Lillington, N. C., are interested. Noted Sept. 3.

South Carolina—Southern Ry.—Bids will be received until Sept. 3 by W. H. Wells, Ch. Engr., Washington, D. C., for double tracking this company's line from Greenville to Greer, S. C., about 26 miles. Noted Aug. 26.

Alabama—L. Beck Musgrove and associates, Jasper, Ala., are interested in a project to construct an interurban railway from Jasper to Birmingham, via Ensley, about 35 miles.

Mississippi—Meriden & Gulf R.R.—This company plans to construct a railway from Columbus to Okolona, Miss., thence to Aliceville, Ala. G. A. Heard, Brooksville, Miss., is interested.

Louisiana—Alexandria Electric Ry.—This company has been sold to the city for $30,000, which plans to improve and extend the line.

Tennessee—Morgan-Fentress Ry.—This company will, according to press reports, extend its line from Harriman beyond the Obed River, about 10 miles. T. H. Enright, Harriman, is Vice-Pres. and Gen. Mgr.

Tennessee—Nashville & Eastern R.R.—Preliminary surveys are being made by this company for the construction of an electric railway from Nashville to Smithville, about 55 miles. Charles Edwards, Smithville, is interested. Noted Aug. 5 and Aug. 26.

Ohio—Columbus Ry., Power & Light Co.—This company plans to relay its tracks on Long and Main St., Columbus. Harold W. Clapp, Columbus, is Gen. Supt.

Ohio—Lake Shore Electric Ry. Co.—This company plans to double track its line on West Erie Ave. between Ashland Ave. and the city limits in Lorain. L. K. Burge, Sandusky, is Gen. Supt.

✚**Ohio**—Cleveland & Ohio Central Electric Ry.—This company, recently incorporated, has awarded a contract for the first 55 miles of its proposed railway from Cleveland to Wooster, Ohio, to the LATHROP-SHEA & HENWOOD CO., Buffalo, N. Y. Noted Aug. 26.

Ohio—The Tiffin Chamber of Commerce has been asked to raise a bond issue of $2000 toward the cost of making a preliminary survey for the proposed electric railway between Tiffin and Bucyrus, Ohio. A. W. Nyquist is interested.

Indiana—Evansville & New Harmony Traction Co.—Press reports state that this company will soon start work on the construction of its proposed electric railway from Evansville to New Harmony, Ind., about 30 miles. C. J. Siebert, Evansville, is Gen. Mgr. Noted July 15.

Wisconsin—A. E. Appleyard, Ashland, is interested in the construction of an electric railway from Ashland to Bayfield, Wis.

Kansas—Kansas City Southern Ry.—This company has been granted a 20-year franchise for trackage rights by the Kansas City Commission for which the company agrees to replace its low pier bridge across the Kaw River with a new two-pier high-line bridge and to pay part of the cost of viaducts for eliminating the grade crossings at Fifth, Seventh and 12th St. C. E. Johnston, Kansas City, is Ch. Engr.

Kansas—Newton, Kansas & Nebraska R.R.—This company will, according to press reports, soon start work on the construction of its proposed railway from Newton through Harvey, McPherson, Dickinson, Saline, Clay and Washington Counties, about 142 miles. S. O. Waddell, Newton, is Ch. Engr. Noted July 15.

South Dakota—Yankton & Northern Ry.—This company has been incorporated to construct a railway from Yankton to Watertown, S. D., about 145 miles. E. S. Johnson, W. J. Gantle and W. E. Heaton, all of Yankton, are the incorporators.

Wyoming—The Popsia Coal Co., Hudson, plans to construct a railway from Shoshone to the northwestern coal fields. H. O. Barber is Mgr.

Montana—Press reports state that North Country farmers and the American Society of Equity contemplate the construction of an electric railway from Opheim to Nashua, Mont., to gain a more efficient means of transportation to the line of the Great Northern Ry.

Texas—Crosbyton-South Plains R.R.—This company, it is reported, has been taken over by the Santa Fé System, which plans to extend same. A. B. Spencer, Crosbyton, is Gen. Mgr.

Texas—Rio Grande Ry.—This company has agreed to convert the railway which runs between Brownsville and Point Isabel, a distance of 22 miles, into a standard-gage line and to make other improvements including the operation of an electric street railway in Brownsville and the dredging of a deep-water channel to connect with the outer deep water of the gulf, provided a bonus of $75,000 is raised toward the proposed work. The entire cost of the project is $400,000. John J. Harden is Chn. of the Bonus Com.

Oklahoma—Tulsa Traction Co.—This company, recently incorporated, will take over the Union Traction Co. and construct an extension to Sapulpa, about 15 miles. Plans are also being considered for an extension to Okmulgee, via Bixby, about 35 miles. A. J. Biddison, I. F. Crow, G. C. Stebbins, W. E. Bennett and J. S. Pearce, all of Tulsa, are the incorporators.

Washington—Washington Electric Ry.—This company has secured a right-of-way about 15 miles southeast of Chehalis, in Lewis County, where it plans to construct an electric railway. H. C. Coffman, Chehalis, is Pres. and Gen. Mgr.

Ontario—The Hydro-Electric Power Commission is having surveys made for the construction of a railway from Hamilton to Port Dover and other points on Lake Erie. F. Gaby, Toronto, is Ch. Engr.

LIGHT, HEAT AND POWER

Binghamton, N. Y.—The City Council has authorized the sale of $148,000 in bonds, the proceeds of which will be used for the construction of a municipal electric-light and power plant. D. W. Foster is City Clk.

✚**Syracuse, N. Y.**—The Globe Malleable Iron Works, 108 Greenway Ave., has awarded the contract for a 34x52-ft., one-story power house to the W. J. BURNS CO., Syracuse, at $4000.

Millville, N. J.—The City Commissioners have passed a resolution to ask for bids for the installation of a municipal electric-light plant. Plans for the proposed plant have been approved. N. B. Wade is City Engr.

Tarentum, Penn.—The Borough Council has authorized the expenditure of $21,000 for improvements to the municipal electric-light plant. Sidney B. Martin, Penn Bldg., Pittsburgh, is Engr.-in-Charge.

Baltimore, Md.—It is reported that plans are being considered for the establishment of a municipal electric-light plant, power to be obtained from Jones Falls. The estimated cost is $200,000. Ezra B. Whitman, Fidelity Bldg., is Consult. Engr.

Baltimore, Md.—The Bartlett-Hayward Co. will build a one-story boiler house and power building at Scott and Ramsay St. to cost about $4000. The building will be fireproof, 43x62-ft. Motors of 5000-hp. capacity will be installed, while the boilers will aggregate 1000 hp.

✚**Nebo, N. C.**—The Morganton Light & Power Co., Morganton, N. C., has awarded the contract for the construction of a dam across the Catawba River at a point near Nebo to the ELLIOTT BUILDING CO., Hickory, N. C., at about $110,000.

Anniston, Ala.—The City Council has granted a franchise to the Alabama Power Co. to extend its gas mains to Oxford, a distance of three miles. Estimated cost, $11,000. The company is also extending its mains to Blue Mountain, a suburb, at a cost of $5000. A. L. Kenyon is Mgr.

Hazard, Ky.—The Kentucky River Power Co., recently organized, will build a power plant, to cost $300,000, to develop about 5000 hp. to serve the coal-mining district of the state. A 25-mile transmission system, costing $25,000, will be constructed. R. L. Cornell, Hazard, is Mgr. and Engr. Noted Aug. 26.

✚**Akron, Ohio**—The Falls Rubber Co. has awarded the contract for the construction of a power house to the AKRON STORAGE & CONTRACTINC CO., at about $5000.

Batavia, Ohio—It is reported that the Village Council has decided to close down the municipal generating station, and will purchase energy for operating the municipal system from the Cincinnati, Georgetown & Portsmouth Traction Co., Cincinnati.

Northfield, Ohio—An election will be held Sept. 20 to vote on the question of issuing $12,000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light system in Northfield.

LaFayette, Ind.—The General Service Co. will shortly begin the construction of a condensing plant to cost about $150,000 at present, and about $300,000 when fully equipped. One 2500-kw. unit will be installed at once, and the building will have an ultimate capacity of 10,000 kw. Thomas Donohue is Mgr. and Ch. Engr.

✚**Dowagiac, Mich.**—The Board of Public Works has awarded the contract for a new generator and switchboard for the municipal electric-light plant to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn., at $5725.

Kalamazoo, Mich.—An election will be held Sept. 7 to submit to the voters the question of issuing $350,000 in bonds for extensions and improvements to the municipal electric-light plant. Clarence L. Miller is City Clk.

Lakefield, Minn.—(Official)—See item under "Water Supply—Irrigation."

Waseca, Minn.—It is reported that the installation of a gas plant in Waseca, to cost between $65,000 and $75,000, is under consideration.

✚**Haviland, Kan.**—The contract for constructing and equipping an electric-light plant has been awarded to the F. D. MARTIN CONSTRUCTION CO., Rialto Bldg., Kansas City, Mo., at $4295. E. T. Archer & Co., New England Bldg., Kansas City, Mo., is Engr.-in-Charge. Noted July 29.

South Haven, Kan.—It is reported that the South Haven Electric Light Co. will soon install a new generating unit, and will purchase a 25-hp. oil engine, one 30-kw. generator and exciter. J. R. Britton is Mgr.

Edgar, Neb.—Bids will be received until 1 p.m., Sept. 3, by the Mayor and City Council for the construction of a municipal-electric light plant, including some electrical material, construction of pole line, and adapting the city pump and well to electric drive. The estimated cost is $6000. W. J. Breckenridge is City Clk.

Willow Lake, S. D.—B. H. Lamont, Willow Lake, contemplates the establishment of an electric-lighting system to serve Clark County. A 24-hr. service will be furnished.

†Knobnoster, Mo.—It is reported that the Johnson County Light & Power Co., recently incorporated, has awarded the contract for the construction of a $10,000 electric-light plant to the STANDARD ENGINEERING CO., Kansas City. J. J. Freundlich, 509 Republic Bldg., Kansas City, is Official-in-Charge.

Corning, Ark.—George A. Booser, owner of the local electric-light plant, is considering changing the system from direct to alternating-current, and building transmission lines to Success and Datto.

†Denton, Tex.—The contract for the construction of a power plant for the College of Industrial Arts has been awarded to J. F. JOHNSON at $7500.

†Huntsville, Tex.—The contract for heating and plumbing equipment in the Sam Houston Normal School has been awarded to KENNISON BROS., at $28,473.

†San Marcos, Tex.—The contract for heating and plumbing equipment in the Southwest Texas Normal School has been awarded to DONNELLY & WHITE, at $40,798.

Lewiston, Idaho—The Lewiston Commercial Club is considering a plan to build a dam and power plant on either the Snake or the Clearwater River, to furnish energy for lighting and other purposes. Robert S. Erb is Pres. of the Commercial Club.

Stanwood, Wash.—The City Council has granted a franchise to George W. Kunze, Arlington, for furnishing electricity to the town for a period of 50 years. It is reported that Mr. Kunze will purchase the local plant, owned by C. A. Query, at $12,250, and will establish a lumber mill to be driven by electricity.

†Portland, Ore.—The contract for installing heating and ventilating equipment in the Franklin High School has been awarded to J. F. SHEA, at $22,928. Noted July 29.

Eureka, Calif.—It is reported that the Western States Gas & Electric Co. will spend $12,000 in enlarging its plants in Humboldt County. H. L. Jackman, Eureka, is Mgr. and Cont. Agt.

Merced, Calif.—It is reported that the San Joaquin Light & Power Co., Fresno, will build a $65,000 substation at Merced. H. H. Adams is Local Mgr. and Gen. Supt. at Merced.

Ontario, Calif.—The Ontario-Upland Gas Co. will enlarge its plant and lay new mains at an estimated cost of $20,000.

Liverpool, N. S.—T. R. Bartling, Town Engr., has been authorized to prepare plans and call for bids at once for improvements to the municipal electric-light plant to cost about $15,000.

BRIDGES

Manchester, N. H.—Plans for the new bridge at South Elm St. will soon be completed. Its cost, about $75,000, will be divided as follows: The city will pay $40,000, the Boston & Maine R.R., $24,000, and the Manchester St. Ry., $12,000. S. J. Lord is City Engr. Noted July 15.

†Lawrence, Mass.—(Official)—Bids were received Aug. 16 by the Commissioners of Essex County for rebuilding the Loring St. Bridge over the Shawsheen River, Lawrence, from the following: Hyde Park Construction Co., Boston, $13,714; William Francis Fitzgibbon, Beverly, $15,784; Hynes Construction Co., Wales, $16,929; LAWLER BROS., Charlestown, $20,051 (awarded contract); Michiel L. Camarco, Lee, $22,656; William L. Miller Co., Boston, $22,769; W. N. Pike & Sons, Lawrence, $22,149 (unsigned bid). Noted Aug. 5.

Bristol, Conn.—Plans are being prepared by Carleton W. Buell, City Engr., for a steel bridge over the Pequabuck River on Broad St.

★Westport, Conn.—(Official)—Bids will be received until 2 p.m., Sept. 22, by the State Highway Commissioner, Capitol, Hartford, for the construction of a single-leaf deck lift bridge over the channel of the Saugatuck River, Westport, and for electrical equipment necessary to operate the bridge. C. J. Bennett is State Highway Comr.

Elizabeth, N. J.—Bids will be received until Sept. 7 by the Board of Chosen Freeholders of Union County for the construction of two bridges, one on the Lower Rd., Rahway, and the other on Hussa St., Linden.

Bangor, Penn.—(Official)—Bids will be received until 10 a.m., Sept. 17, by George F. P. Young, Controller of Northampton County, Easton, for the construction of a reinforced-concrete bridge over Martin's Creek in the Borough of Bangor, known as County Bridge No. 48.

Halifax, Penn.—The State Water Supply Commission has approved the application of the Pennsylvania R.R. for permission to build a bridge over Armstrong Creek near Halifax. A. C. Shand, Philadelphia, is Ch. Engr.

Jenkintown, Penn.—Plans are being prepared for a new bridge over the tracks of the Philadelphia & Reading Ry. on Switchville St., Jenkintown. It will be a 110-ft. steel span. The estimated cost is $40,000. John N. Jacobs, Norristown, is Controller of Montgomery County.

†Johnsonburg, Penn.—The Town Council has awarded the contract for the construction of a reinforced-concrete bridge over the East Branch of the Clarion River to HARRY KOONS, Johnsonburg, at $6300.

†Pittsburgh, Penn.—(Official)—The Commissioners of Allegheny County have awarded the contract for repairs to approaches and floor of Bridge No. 6 over the Youghiogheny River, to C. W. HAGGART, 323 Fourth Ave., Pittsburgh, at $18,425. Noted Aug. 12.

Uniontown, Penn.—Bids will be received until noon, Sept. 28, by Harry Kisinger, Controller of Fayette County, Uniontown, and by the Controller of Westmoreland County, Greensburg, for the construction of a plate girder bridge with concrete substructure and floor, over Jacobs Creek at West Overton, between the two counties.

Courtland, Va.—(Official)—The Board of Supervisors of Southampton County announces that it is not in a position to build the proposed Cary Bridge over the Nottaway River at present, and the advertisement for bids to be received until Sept. 3 has been recalled. Noted Aug. 26.

Richmond, Va.—Press reports state that the Administrative Board has directed the City Engineer to prepare plans for the construction of a bridge over Grace St. from Taylor's Hill (22d St.) to Memorial Hospital. The cost is tentatively estimated at $250,000. Charles E. Bolling is City Engr.

Keyser, W. Va.—Bids will be received until Sept. 14 by J. V. Bell, Clk. of Mineral County, for the construction of two reinforced-concrete bridges, one 30-ft. span over Georges Run, and one 50-ft. span over Beaver Run, both with 14-ft. roadways.

†Athens, Ga.—The Commissioners of Clarke County have awarded the contract for repairing the Princeton Bridge to the EAST ST. LOUIS BRIDGE CO., East St. Louis, Ill., at $4357. Noted July 15.

†Dalton, Ga.—(Official)—Bids will be received until 1:30 p.m., Sept. 11, by H. J. Wood, Ordinary and Chn. of County Bd. of Whitfield County, for the construction of a reinforced-concrete bridge across Coahulla Creek. It will have one 80-ft. and one 25-ft. span. Noted Aug. 19.

Jesup, Ga.—(Official)—Plans will be completed about Sept. 10 for the construction of a bridge across the Altamaha River between Wayne and Liberty Counties. Ira M. Raybon, Jesup, is Clk. Bd. of Comrs. of Wayne County. Noted Aug. 19.

Macon, Ga.—It is reported that the Central of Georgia Ry. will build a concrete viaduct on Plum St. between Fifth and Sixth St., to cost about $75,000. The work will be done in connection with the new union passenger station at the foot of Cherry St. J. M. Fitzgerald, Macon, is Supvr. of Bridges and Bldgs., Central of Georgia Ry.

†Johnsonville, Tenn.—The Nashville, Chattanooga & St. Louis Ry. has awarded the contract for a new steel drawbridge over the Tennessee River in Johnsonville, to H. M. GOULD, Nashville.

Lancaster, Ky.—The Fiscal Court of Garrard County has voted to build a bridge across White Creek in the Point Lick section.

Akron, Ohio—Bids will be received until Sept. 17 by the Board of Commissioners of Summit County for the construction of the substructure of the Gichrist Bridge in Springfield Township. C. L. Bower is Clk. of Comrs.

Ashland, Ohio—(Official)—Bids will be received until noon, Sept. 17, by the Board of Commissioners of Ashland County for the construction and repair of five county bridges. H. C. Westover is County Audr. B. Welty is Clk. of Comrs.

Cleveland, Ohio—Bids will be received until noon, Sept. 16, by the Commissioner of Purchases and Supplies, Room 511, City Hall, for foundations, approaches and structural steel work for the Union Ave. grade crossing. Robert Hoffman is City Engr.

Dayton, Ohio—The Directors of the Miami Conservancy District have approved the plans of the Pennsylvania R.R. for a bridge over the Miami River replacing the one washed away by the flood of 1913. It will cost about $300,000. The Big Four and the Cincinnati, Hamilton & Dayton lines will also use the bridge.

†Marysville, Ohio—The Board of Commissioners of Union County has awarded bridge contracts to the CAPITOL CONSTRUCTION CO., Columbus, at $4676 for the Ford Bridge, and to the BELLEFONTAINE BRIDGE & IRON CO., Bellefontaine, at $3197 for the Jones Bridge.

Warren, Ohio—Bids will be received until Sept. 13, by the Board of Commissioners of Trumbull County for the construction of the Griswold St. Bridge, Warren. W. R. Harrington is County Audr.

Brownstown, Ind.—(Official)—Bids will be received until Sept. 7 by the Commissioners of Jackson County for the construction of nine bridges. Albert Leudtke is Audr.

Corydon, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 7, by the Commissioners of Harrison County for the construction of three steel bridges. J. L. O'Bannon is Audr.

Crawfordsville, Ind.—(Official)—Bids will be received until 10 a.m., Sept. 7, by the Commissioners of Montgomery County for the construction of several bridges. B. B. Engle is Audr.

†Crown Point, Ind.—It is reported that the contract for the construction of a concrete bridge on the Lincoln Highway in Lake County has been awarded to the ENGINEERING CONSTRUCTION CO., 106 North LaSalle St., Chicago, Ill., at $10,990.

Danville, Ind.—(Official)—Bids will be received until 10 a.m., Sept. 11, by the Commissioners of Hendricks County for the construction of five bridges and the repair of others. L. W. Borders is Audr.

Hartford City, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 6, by the Commissioners of Blackford County for the construction of two concrete bridges. J. L. McGeath is Audr.

Hartford City, Ind.—The City Council plans the construction of two new bridges over Little Lick Creek at Jefferson St. and Spring St., estimated to cost $4000 and $2000 respectively.

Indianapolis, Ind.—Bids will be received until 10 a.m., Sept. 3, by the Board of Park Commissioners for the construction of a trestle over Pleasant Run at Michigan St.

Peru, Ind.—(Official)—Bids will be received until noon, Sept. 8, by the Commissioners of Miami County for the construction of a concrete bridge in Richland Township. F. K. McElheny is Audr.

Rensselær, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 7, by the Commissioners of Jasper County for the construction of several bridges. J. P. Hammond is Audr.

✚Richmond, Ind.—(Official)—The Board of Commissioners of Wayne County has awarded the contract for the construction of four bridges to ISAAC E. SMITH, Richmond, at $23,000 for the four. The work includes the North 12th St. Bridge in the City of Richmond; the Short Creek Bridge; the Centerville Bridge and the McConaha Bridge. Noted Aug. 19.

Warsaw, Ind.—(Official)—Bids will be received until 10 a.m., Sept. 9, by the Commissioners of Kosciusko County for the construction of nine bridges. V. D. Mock is Audr.

Lansing, Mich.—Under the terms of the new trunk line highway law, passed by the last legislature, the State Highway Commission will spend about $80,000 this year for constructing new bridges. Frank F. Rogers is State Highway Comr.

Richland Center, Wis.—Plans are being prepared by H. A. Abbott, Div. Engr., State Highway Comn., for three steel bridges with concrete floors and abutments, 40-, 60- and 80-ft. spans respectively, in Richland Center. R. Sutt is City Clk.

Brainerd, Minn.—Bids will be received until 2 p.m., Sept. 7, by C. W. Mahlum, Audr. of Crow Wing County, for a bridge over the Pine River to consist of three 30-ft. spans on reinforced-concrete abutments; also for the construction of two reinforced-concrete bridges.

✚Crookston, Minn.—The Commissioners of Polk County have awarded contracts for the construction of 14 steel bridges in various townships to GRUND & NORDQUIST, Pitt, Minn., at $19,991.

Mankato, Minn.—It is reported that the city of Mankato has retained Donald Price, Omaha, Neb., to prepare plans for a reinforced-concrete bridge across the Minnesota River at Mankato. It will be about 560 ft. long, and the cost must not exceed $80,000. J. H. A. Brahtz, Consult. Engr., St. Paul, will supervise the construction work.

✚Wadena, Minn.—(Official)—The Commissioners of Wadena County have awarded the contract for the construction of State Bridge No. 1551 to the MINNEAPOLIS BRIDGE CO., Minneapolis, at $4875. Other bidders were: Hennepin Bridge Co., $5376; Great Northern Bridge Co., $5350; Illinois Steel Bridge Co., $4950; Plymouth Construction & Repair Co., $5660. Noted Aug. 12.

✚Girard, Kan.—(Official)—The Commissioners of Crawford County have awarded contracts for the construction of four steel girder bridges to the CONCRETE STEEL & CONSTRUCTION CO., Joplin, Mo., at $3510, and for one concrete bridge to the TOPEKA BRIDGE & IRON CO., Topeka, at $1060. Noted Aug. 12.

Kansas City, Kan.—It is reported that plans prepared by R. L. McAlpine, County Engr. of Wyandotte County, for a single-deck bridge with 27-ft. roadway and double car tracks over the Kaw River on Central Ave., were not approved by the War Department. New plans will be prepared by Harrington, Howard & Ash, Consult. Engr., Orear-Leslie Bldg., Kansas City, Mo. The estimated cost is $450,000, to be divided between Wyandotte County and the Metropolitan St. Ry. Co., Kansas City, Mo. Noted May 27 and July 8.

✚Mound City, Kan.—The Board of Commissioners of Linn County has awarded the contract for the construction of four bridges to the TOPEKA BRIDGE & IRON CO., Topeka, at $9925.

✚Topeka, Kan.—The city has awarded the contract for the construction of a bridge across Shunganunga Creek on Lincoln St. to ALLEN & FULTON, Topeka, at $11,524. Other bidders were: Fred Luttjohann, $11,900, and the Topeka Bridge Co., $13,850. Noted July 8.

✚Fremont, Neb.—(Official)—The Commissioners of Dodge County have awarded the contract for all county bridge construction for a period of one year to the STANDARD BRIDGE CO., Omaha. Five other bids were received. Noted Aug. 12.

✚Medora, N. D.—The National Park Transcontinental Highway Association has awarded the contract for the construction of a bridge over the Little Missouri River at Medora to the ILLINOIS STEEL BRIDGE CO. at $17,000, including approaches and riprapping. Noted May 13 and Aug. 12.

Kansas City, Mo.—It is reported that bids will be received about Sept. 14 by the Board of Park Commissioners for the construction of a reinforced-concrete viaduct at 77th St. and the Paseo. The estimated cost is between $40,000 and $50,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, is Engr.-in-Charge. Noted Feb. 4.

Perryville, Mo.—Bids will be received until Sept. 7 by Thomas J. Killian, Road and Bridge Comr. of Perry County, for the construction of a steel bridge with wood floor and stone or concrete abutments and a steel bridge with concrete floor and abutments.

Dallas, Tex.—It is reported that plans are being prepared by the Stone & Webster Engineering Corporation, Boston, Mass., for a viaduct between Dallas and Oak Cliff. The estimated cost is $50,000. J. M. Preston is City Engr.

✚Menard, Tex.—The Commissioners Court of Menard County has awarded the contract for the construction of two low-water bridges across the San Saba River to AUSTIN BROS., Dallas, at $6550.

Lawton, Okla.—(Official)—Bids will be asked in about 60 days by the Commissioners of Comanche County for the construction of county bridges to cost about $5000. S. A. Joyner is County Engr. Noted Aug. 19.

Mt. Vernon, Wash.—The Commissioners of Pierce County plan to build an 80-ft. Howe truss span bridge across Diasbud Creek on State Rd. No. 11. The work will be done by county forces from plans prepared by A. L. Strong, County Engr.

✚Berkeley, Calif.—The City Council has awarded the contract for the construction of a bridge across Cordornices Creek to D. McDONALD at $5675. Noted July 22 and Aug. 19.

Oroville, Calif.—Bids will be received until Sept. 11 by the Board of Supervisors of Butte County for the construction of a number of county bridges. The estimated cost is $14,400. C. M. Polk is County Surv.

✚Placerville, Calif.—The Board of Supervisors of Eldorado County has awarded the contract for the construction of a bridge across the South Fork of the American River to BLUXOME & CO., Monadnock Bldg., San Francisco, at $11,470, including a macadam covering on the floor, or $11,250 without the macadam. Noted Aug. 5.

Rail Road Flat, Calif.—The Supervisors of Calaveras County, San Andreas, have approved plans for a 670-ft. steel bridge across the Moklumne River at Rail Road Flat.

Red Bluff, Calif.—The Board of Supervisors of Tehama County will soon ask bids for the construction of a reinforced-concrete bridge across Mill Creek in Los Molinos Colony.

✚Visalia, Calif.—The Board of Supervisors of Tulare County has awarded the contract for a bridge over Kings River to the TURNER CO., Los Angeles, at $14,333. Other biders were: Boardman Construction Co., $17,019; Johnson Bros., $15,680; Settelwell Co., $23,000; Mesmeyer Co., $17,243; Mercereau Bridge & Construction Co., $18,681; C. E. Cotton, $17,469; Manning Bros., $21,400; Parlier Construction Co., $14,336; Munoz & Munoz, $18,998; California Construction Co., $15,700. Noted Aug. 5.

Halifax, N. S.—(Official)—Bids will be received until noon, Sept. 11, by E. H. Armstrong, Comr. Pub. Wks. and Mines, for the construction of 174 culverts of permanent material on several roads.

WATER SUPPLY—IRRIGATION

Madison, Maine—The purchase of the property rights and franchises of the Madison Water Co. is being considered by the city.

Boston, Mass.—Bids will be received until Sept. 9 by the Public Works Department for laying 11,500 ft. of 10- and 12-in. water mains in several streets in East Boston. Edward F. Murphy is Comr.

Boston, Mass.—The Commissioner of Public Works plans to construct a high pressure fire service pumping station at Dorchester Ave. and Summer St.

Hartford, Conn.—Bonds for $10,000 have been sold. The proceeds will be used toward the construction of the Nepaug water system. Noted Aug. 12 and 26.

New Britain, Conn.—Plans are being prepared by William H. Hall, City Engr., for the construction of the Burlington Reservoir. Noted Mar. 25.

Windsor, Conn.—(Official)—Bids were received Aug. 20 for the construction of a water system as follows: Antonio Lambo, Waterbury, $34,560; A. D. Ambrosio, Hartford, $34,704; Sussi & Williams, Boston, Mass., $35,872; Bernardino & Tomassetti Construction Co., Meriden, $39,069; A. W. Byrne, Hartford, $39,166; Abbott & Bowes, Cohoes, N. Y., $39,623; Hanson Construction Co., Boston, Mass., $40,455; Louis D. Gregory, New York, $40,813; Cordener & Montague, Springfield, Mass., $41,405; T. F. Foley Co., South Norwalk, $42,374; Piersen Engineering & Construction Co., Hartford, $42,671; Way & Collilll, Springfield, Mass., $43,633; F. N. Lewis, New York, $46,412; Daly & Merritt, Portchester, N. Y., $47,163; Middlesex Contracting Co., Franklin, Mass., $48,581. H. R. Turner is Supt. of Water Wks. Noted Aug. 5.

Hudson Falls, N. Y.—Charles E. Perry, Consult. Engr., Albany, who was retained by the village to estimate the cost of a water system has made the following report: Three pond conduit, $6453, intake reservoir, $8501, conduit, $77,485, distributing system, $78,932, fire hydrants, gate valves, and other valves, $27,500. The total estimated cost is $270,000.

★Manchester, N. Y.—(Official)—Bids will be received until Sept. 15 by the Board of Village Trustees, for constructing a water system. Noted May 27 and June 17.

✚North Collins, N. Y.—The contract for the construction of a water system has been awarded to SHIPMAN & LINCOLN, Gowanda. Bonds for $35,000 have been voted for this purpose.

✚★Watervliet, N. Y.—Contracts have been awarded by the Board of Water Commissioners for constructing the municipal water system as follows: Section No. 1, storage reservoir, dam and pumping station to N. R. PORTERFIELD, New York; Section No. 2, supply main and service reservoir to LINCOLN, STEELE FLEMING CO., New York; Section No. 3, filtration plant to AMERICAN WATER SOFTENER CO., Philadelphia, Penn., and Section No. 4, distribution system to BEAVER ENGINEERING & CONTRACTING CO., New York. The total amount of contract is $418,000. Noted July 22 and Aug. 26.

✚★Wellsville, N. Y.—(Official)—Bids were received Aug. 25 for making improvements to the water system as follows: JAMES H. HAVENS, Olean, at $39,588 for piping and $36,027 for constructing a reservoir (awarded contract); Suburban Construction Co., New York, $83,474; J. F. Calahan, Jamestown, $41,087; A. M. Scoerson, Erie, Penn., $36,900; J. D Kieher, $49,500 and Knight & Sayre, Wellsville, $40,981. Charles C. Hopkins is Engr. Noted July 29.

Cranford, N. J.—The Township Committee contemplates the construction of a water system. The estimated cost is $300,000.

Long Branch, N. J.—Morris R. Sherrerd, Newark, who was retained by the City Commission to estimate the cost of constructing a municipal water system, has reported that a system can be installed at an estimated cost of $500,000.

Newark, N. J.—Bids will be received until 2:30 p.m., Sept. 3, by the Committee on Public Buildings of the Common Council of the City of Newark, City Hall, for the construction of a water supply system at the almshouse at Ivy Hill. The George W. Knight Co. is Engr. A. Archibald is City Clk. Noted Aug. 26.

✚Newark, N. J.—The contract has been awarded to JOHN L. REID, Newark, at $11,555, by the Board of Chosen Freeholders of Essex County for drilling a well and for pumps, compressors at the new county hospital at Overbrook.

Brownsville, Penn.—(Official)—The State Board of Health has approved the plans for the construction of a filtration plant in South Brownsville. Noted July 22.

Media, Penn.—The bond issue of $70,000 which was recently voted for the improvement of the water system has been declared illegal. Another election will be held in November. Noted June 17 and 24.

Reynoldsville, Penn.—An election will soon be held to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the purchase of the Reynoldsville Water Co.

Ayden, N. C.—At a recent election the citizens voted in favor of issuing $50,000 in bonds. Part of the proceeds will be used for the construction of a water system.

Lumberton, N. C.—Bids will soon be received by A. E. White, Mayor, for the installation of a filtration plant at the municipal water system. The estimated cost is $10,000. Gilbert C. White, Consult. Engr., Charlotte, has prepared the plans. Noted Dec. 3 and Aug. 19.

✚Warrenton, N. C.—The contract for the construction of a water system has been awarded to M. M. WILKES, Atlanta, Ga. Bonds for $50,000 have been sold for this purpose. Gilbert C. White, Charlotte, is Engr. Noted June 17 and July 22.

Macon, Ga.—According to press reports the Water Commissioners contemplate an expenditure of $10,000 for the improvement of the distilling plant at the Riverside Station.

Coolidge, Fla.—At a recent election the citizens voted in favor of issuing bonds, the proceeds of which will be used for the construction of a water system. S. C. Neswith is City Clk. Noted July 29.

Pass Christian, Miss.—X. A. Kramer, Consult. Engr., Magnolia, Miss., has been retained to make a survey and prepare plans for the construction of a water system. Estimated cost, $10,000.

Philadelphia, Miss.—Plans are being prepared by M. L. Culley, Engr., Jackson, for the construction of a water system. Noted June 24.

White Castle, La.—On Aug 19 the citizens voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for the construction of a water system and electric-light plant. X. V. Kramer, Magnolia, Miss., is Engr. Noted Aug. 22.

Lenoir City, Tenn.—At a recent election the citizens voted against the question of issuing $10,000 in bonds, the proceeds of which was to have been used for the completion of the water system. Noted Aug. 26.

Brewster, Ohio—(Official)—The only complete bid received for the construction of a municipal water system was that of David Eshelman & Son, Anderson, Ind., at $23,333. The W. H. Sherman Co., Toledo, is Engr. Noted Feb. 4 and Aug. 12.

✚✚Cambridge, Ohio—(Official)—The contract has been awarded to C. P. O'REILLY, St. Louis, Mo., and the PITT CONSTRUCTION CO., Pittsburgh, Penn., for making improvements at the water system. Noted July 22.

✚Maumee, Ohio—The contract has been awarded to T. C. BROOKE & SON, Jackson, Mich., at $49,753, for constructing a water system. Noted July 23.

Medina, Ohio—(Official)—Bids will be received until Sept. 15 by the Board of Public Affairs for furnishing 12,336 ft. of 4-in. pipe, 37 4-in. valves, 15 hydrants and 6800 lb. of specials. B. E. Elkard is City Clk.

Middletown, Ohio—S. G. Pollard, Cincinnati, is preparing plans for the construction of a water system. Bonds for $120,000 have been voted for this purpose. Noted Aug. 19.

Tiffin, Ohio—According to press reports plans have been prepared for the enlargement of the water system. O. E. Williams, Boston, Mass., is Pres. Tiffin Water Wks. Co. Noted June 24.

West Park, Ohio—Bids will be received until noon, Sept. 13, by M. J. Spooner, Clk., Bd. of Pub. Affairs, for constructing water mains in nine streets.

Bloomington, Ill.—The Commercial Club of Bloomington has filed a petition with the Public Service Commission to make a survey of the water system and to have plans prepared for the needed improvements. Elmer Folsom is City Engr.

✚Clinton, Ill.—The contract has been awarded to the DAVIS EWING CONCRETE CO., Bloomington, at $6644, for constructing a reservoir.

Fairbury, Ill.—Plans are being prepared for the construction of a well at the water works. The proposed well will have a depth of 1000 to 2000 ft. of 20-in. pipe. T. W. Burns is Supt. of Water Wks.

Wheaton, Ill.—The construction of a new steel standpipe on a site higher than the present one is under consideration. L. J. Ruddock is City Engr.

Manitowoc, Wis.—(Official)—Plans have not yet been completed for the installation of two pumps at the water works. William Miller is City Clk. Noted Aug. 19.

Monticello, Wis.—Bids will be received until Sept. 7 by H. O. Babler, Village Clk., for the construction of 2300 ft. of 6-in. water main.

Oshkosh, Wis.—Bids will be received until 2 p.m., Sept. 7, by the Board of Public Works, for laying 2600 ft. of 2-in. and 1200 ft. of 1¼-in. water pipe in the new cemetery. R. A. Hollister is Chn. of Bd. Noted Aug. 5 and 26.

Dubuque, Iowa—The Water Department plans to lay about 1800 ft. of water mains on Broadway from Diagonal to Putnam St. B. F. Stedman is Supt. of Water Wks.

✚Lakefield, Minn.—(Official)—The contract has been awarded to the STERLING ELECTRIC CO. and the DES MOINES BRIDGE & IRON WORKS, at $26,325 and $4105 respectively for making improvements to the water and electric-light systems. E. Anderson is City Clk. Noted July 15.

Minneapolis, Minn.—The Water Works Commission has authorized the laying of 31,762 ft. of 6-in., 5838 ft. of 8-in. and 6058 ft. of 12-in. water pipe. The estimated cost is $75,142. William R. Young is Water Wks. Supt.

Attica, Kan.—Bonds for $30,000 have been voted by the citizens, the proceeds of which will be used for the construction of water and electric-light systems. Noted July 29.

✚Milligan, Neb.—(Official)—The contract has been awarded to F. B. BENTLEY, Geneva, at $5463, for constructing a water system. E. J. Kotes is City Clk. Noted Aug. 19.

Whitehall, Mont.—(Official)—Bids will be received until Sept. 23 by F. E. McCall, Town Clk., for constructing water and sewer systems.

Macon, Mo.—(Official)—Bids will be received until 1 p.m., Sept. 14, by J. L. Martin, City Clk., for making improvements to the water system. Noted Aug. 12.

Heber Springs, Ark.—According to press reports the city will construct water and sewerage systems. The estimated cost is $80,000. B. R. Brown is Recdr.

✚Caddo, Okla.—(Official)—The contract for the construction of a pumping station and filtration plant has been awarded to F. W. KEENEY, Oklahoma Bldg., Oklahoma City, at $20,000. The work will include two 8x10-in. triplex pumps, two 4-in. centrifugal pumps, two 50-hp. oil engines, one gravity filter with a daily capacity of 250,000 gal., power house, settling basin and clear water well. Noted Aug. 12.

Pauls Valley, Okla.—An election will soon be held to vote on the question of issuing $16,000 in bonds, the proceeds o. which will be used for the extension of the water system.

Myton, Utah—(Official)—Bids will be received until Sept. 29 by R. B. Crois, Town Clk., for constructing a water system.

✚Salt Lake City, Utah—The contract for the construction of the high line canal in Division No. 9 of the Strawberry Valley Irrigation project has been awarded to HEUSER, SIM & VORKINK, Salt Lake City, at $35,504.

Everett, Wash.—At an election held Aug. 24 the citizens voted in favor of the question of issuing $1,700,000 in bonds. Part of the proceeds will be used for the construction of a pipe line to carry the waters of Sultan basin to the city limits, about 24 miles, and for the purchase of the present water works.

Olympia, Wash.—A recent decision of the Supreme Court has rendered illegal the $90,000 bond issue recently voted for the purchase of the local water plant. Noted Mar. 11 and May 6.

Ridgefield, Wash.—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the construction of a municipal water system.

Wenatchee, Wash.—Press reports state that an election will be held Sept. 11 to vote on the question of issuing $500,000 in bonds. The proceeds will be used for the construction of a new irrigation system and for the improvement of the old one.

Halfway, Ore.—Bonds for $20,000 have been voted by the citizens. The proceeds will be used for the construction of a gravity water system. Noted Aug. 12.

Hood River, Ore.—An election will be held Sept. 7 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for the construction of an irrigation system near the Hood River.

Roseburg, Ore.—The City Council will be petitioned to issue $250,000 in bonds, the proceeds of which will be used for the construction of water and electric-light systems.

Venator, Ore.—Surveys have been made by George Waggoner, Eugene, for the construction of a water system.

✚San Francisco, Calif.—The contract has been awarded by the Spring Valley Water Co. to JAMES H. O'BRIEN & GEORGE A. BOS, at $5250, for concrete work at the Lake Honds reservoir.

Stockton, Calif.—An election will be held Oct. 16 to vote on the question of the formation of the West Side Irrigation District. The proposed district plans to irrigate 11,000 acres at an estimated cost of $285,000.

Quebec, Que.—Bids will be received until noon, Sept. 7, by O. Lefebvre, Ch. Engr., of the Quebec Streams Commission, Parliament Bldg., for constructing a storage dam at the outlet of Lake St. Francis.

SEWERS

Haverhill, Mass.—The city will construct sewers in various streets. Estimated cost, $5000.

Lawrence, Mass.—The City Council has authorized an expenditure of $30,000 for the construction of sewers.

✚Woonsocket, R. I.—(Official)—The contract for the construction of approximately 4400 ft. of 8-in. and 500 ft. of 15-in. sewers and appurtenances has been awarded to the EASTERN CONSTRUCTION CO., Woonsocket. Noted Aug. 19.

✚Hockanum, Conn.—(Official)—The contract for the construction of 9300 ft. of 12-, 10- and 8-in. sewers has been awarded to A. D'AMBROSIO, Hartford, at $8060. Other bids were: Skeketoff & Roger, $8652; D. O'Connor, $8907; A. W. Bryns, $8942; A. Lambo, $10,540; Bonadies & Monocchio Co., $13,593. Noted Aug. 5.

Lakeville, Conn.—Preliminary plans are being prepared by Virgil Ehle for the construction of a sewer system. The estimated cost is $43,000.

★Buffalo, N. Y.—(Official)—The lowest bid received for the renewal of sewer lines at the Buffalo State Hospital was that of Kelly & Wheeler, 537 Norwood Ave., Buffalo, at $6295. E. S. Elwood is Secy. State Hospital Comn. Noted Aug. 19.

East Syracuse, N. Y.—At a recent election the citizens defeated the question of issuing $36,000 in bonds, the proceeds of which was to have been used for the construction of sewers and a sewage-disposal plant.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Aug. 25 by L. H. Pounds, Borough Pres., for the construction of sewers in (a) Clara St., (b) Kenmore Pl., (c) 54th St., (d) East 26th St., (e) Dumont Ave., (f) Roch-

erter Ave., from Frank Spinella, (a) 89%, (b) 93%, (c) 90%, (d) 95%; F. L. Pelligrino, (a) 85.32%, (e) 83.97%, (f) 116.5%; S. Pacone & Sons, 969 20th St., Brooklyn, (a) 80%, (b) 74%, (c) 76.50%, (d) 66%, (e) 70%; Bigeleo Contracting Co., (a) 123.75%, (c) 135%; B. Pacone & Sons. (a) 79%, (b) 99%, (c) 90%, (d) 62%, (e) 100%, (f) 145%; Joseph Jennings, (a) 90%, (b) 106%, (c) 95.12%, (d) 88.72%, (e) 92.20%, (f) 164%; F. Merrindino, Inc., 556 17th St., Brooklyn, (a) 88.44%, (b) 80%, (c) 83.40%, (d) 80%, (f) 92%; Murphy Bros., (a) 93.3%, (b) 97%, (c) 97%, (d) 92%; Backus & Gelardi, (a) 81%, (b) 93%, (c) 86%, (d) 80%, (e) 98%, (f) 111%; Egelardi Contracting Co., (a) 83%, (b) 125%, (c) 83%, (e) 150%, (f) 150%. Noted Aug. 19.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., Borough Hall, until 11 a.m., Sept. 8, for the construction of sewers in various streets.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Municipal Bldg., until 2 p.m., Sept. 9, for the construction of a sewer in Ellwood St. between Nagle and Sherman Ave.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, until noon, Sept. 7, for the construction of a sewage-disposal plant at the Richmond County Jail.

✚★Oswego, N. Y.—(Official)—Contracts for sewer construction have been awarded as follows: BRODERICK & FINGERHUT, at $1734, for Tallman, Niagara and West Second St. sewer; SAMUEL BONN, Syracuse, at $7872, for West Albany St. sewer; L. TREMITI, at $2853, for East Mohawk, Duer, Bonner, Hamilton and East Eighth St. sewers; RALPH RELLY, Utica, at $8792, for West Oneida and Dublin St. sewer, and at $14,764, for West Mohawk, Singleton and Liberty St. sewer. Noted Aug. 19.

Linden, N. J.—Bids will be received until Sept. 20 by the city for the construction of a sewer system in Elizabeth, Ziegler and Maple Ave., and in Roselle, Price and 13th St.

Newark, N. J.—Bids were received Aug. 26 by the Board of Street and Water Commissioners for the construction of Section No. 1 of the Meadowbrook Outlet Sewer from Matteo Ronaldo, $7554; Donato Fusco, $5275; Cardell & Romano, $10,060; Averill-Matthews Co., $9730; Peter D'Amato, $10,385; M. Stefanelli, $10,028. Noted Aug. 19.

Prospect Park, N. J.—(Paterson post office)—Plans have been prepared by Harold J. Harder, Engr., for the construction of a sewage-disposal plant. Noted June 10.

Pittsburgh, Penn.—The city contemplates the construction of a surface water sewer in the Five Mile Run drainage basin and the improvement of sewers in the Saw Mill Run. The estimated cost is $201,000 and $150,000 respectively.

Wilmington, Del.—Bonds for $50,000 have been sold, the proceeds of which will be used for the construction of sewers along Brandywine Creek from Henry Clay. Noted July 15.

Huntington, W. Va.—Bids will be received until Sept. 6 for the construction of sewers in various streets. O. H. Wells is Engr.

Ayden, N. C.—At a recent election the citizens voted to issue $15,000 in bonds, the proceeds of which will be used for the construction of sewers. Noted Aug. 12.

Raeford, N. C.—The citizens voted to issue $30,000 in bonds, the proceeds of which will be used for the construction of sewer and water systems. Noted Aug. 26.

Macon, Ga.—Plans have been prepared by J. J. Gaillard, City Engr., for the construction of sewers to take the place of the old Vineville branch.

✚Ft. Myers, Fla.—The contract for the construction of approximately 1½ miles of sewers has been awarded to the SOUTHERN CLAY MFG. CO., Chattanooga, Tenn.

✚Cloverdale, Ala.—The contract for the construction of a sewer system has been awarded to SULLIVAN, LONG & HAGERTY CO., Bessemer, Ala. The estimated cost is $30,000. Noted Aug. 12.

Philadelphia, Miss.—Plans are being prepared by M. L. Cully, Engr., Jackson, for the construction of a sewer system.

Hammond, La.—Bids will be received until Sept. 4 for the construction of a sewer system. The estimated cost is $40,000. X. A. Kramer, Magnolia, Miss., is Consult. Engr. Noted July 15.

Louisville, Ky.—An election will be held in November to vote on the question of issuing $350,000 in bonds. The proceeds will be used for the construction of sewer system and a sewage-disposal plant.

Owensboro, Ky.—(Official)—The Council has not appropriated $6000 for the construction of a sewer in the Old Ravine on West Second St. as was noted in the issue of Aug. 26. H. M. Talboth is City Engr.

Bowling Green, Ohio—Plans are being prepared for the construction of a sewage-disposal plant.

✚Cincinnati, Ohio—(Official)—The contract for the construction of the Pogue Ave. sewer has been awarded to RUNCK BROS., at $6040. Noted Aug. 19.

✚Cincinnati, Ohio—(Official)—The contract for the construction of sewers in McDowell, Strafer St. and in Columbia Ave. has been awarded to M. J. McCARTHY, Cincinnati, at $4865. Noted Aug. 5.

Cleveland, Ohio—(Official)—Bids were received Aug. 18 by the Commissioner of Purchases and Supplies for the construction of a concrete open channel outfall sewer approximately 630 ft. long and a submerged outfall pipe line about 3600 ft. long, from: Great Lakes Dredge & Dock Co., $95,671; American Construction Co., $109,985; Merritt & Chapman Derrick & Wrecking Co., $125,513; Charles Fath & Co., $125,915; Cleveland Engineering & Construction Co., $137,230. Noted Aug. 5.

Cleveland, Ohio—(Official)—Bids were received Aug. 19 by Robert Hoffman, City Engr., for the construction of sewers in various streets from: Manson Construction Co., $67,272; John Wagner, $71,847; W. P. Gibbons, $75,025; Hoag & Zullo, $78,036; Central Ohio Construction Co., $80,436. Noted Aug. 19.

Cleveland, Ohio—Bids will be received until noon, Sept. 9, by the Commissioner of Purchases and Supplies for the construction of sewers in West 110th St. from Lorain to Overlook Ave.; Parkhurst Drive from Bosworth Rd. to West 110th St.; Overlook Ave. from West 110th St. to Bosworth Rd.; storm sewer in Bulkley Blvd. from West 25th to West 28th St. Robert Hoffman is City Engr.

Hillsboro, Ohio—It is reported that plans are being prepared by H. L. Maddocks, Newark, for the construction of a sewer system and a sewage-disposal plant.

Mansfield, Ohio—(Official)—Bids will be received about Oct. 15 by Secretary of the Board of Control for the construction of additions to the sewage-disposal plant. The estimated cost is $110,000. W. J. Hazeltine is City Engr. Noted Aug. 19.

Indianapolis, Ind.—Preliminary plans are being prepared for the construction of a sewage-disposal plant. The estimated cost is $1,500,000.

Princeton, Ind.—Bids will be received about Sept. 13 for the construction of a sanitary sewer system.

✚South Range, Mich.—The contract for the construction of a sewer system has been awarded to HALL & LABBY, at $6900. Noted Apr. 29.

✚Berwyn, Ill.—(Official)—The contract for the construction of sewers in various streets has been awarded to T. H. IGLEHART, Chicago, at $5878. Noted Aug. 12.

Salem, Ill.—(Official)—Bids will be received in about 90 days for the construction of a sanitary sewer system. The Caldwell Engineering Co., Jacksonville, is Engr. Noted Aug. 19.

Springfield, Ill.—Wade Seeley, City Engr., estimates the cost of constructing a branch sewer and a sewage treatment plant at $120,000.

Appleton, Wis.—(Official)—Bids will be received until 9 a.m., Sept. 23, by the City Clerk for the construction of approximately 2300 ft. of 66- and 72-in. sewers of vitrified segment block or concrete in tunnel. A. C. Bemley is City Engr. Noted Aug. 26.

✚Madison, Wis.—(Official)—Contracts for sewer construction have been awarded to WEBER & GAY, at $28,865, 20-in. force mains; J. F. ICKE, at $24,700, interceptor; J. W. MITCHELL, at $12,100, pumping station.

★Milwaukee, Wis.—(Official)—Bids will be received until 10:30 a.m., Sept. 17, by Fred G. Simmons, Comr. of Pub. Wks., for the construction of the Lake St. sewer including the tunnel section, all shafts, manholes and the outfall section.

Racine, Wis.—Plans have been prepared by the Board of Public Works and submitted to the Council for extending the outlets of the English and 16th St. sewers into the lake such a distance that the outlets shall be submerged. The estimated cost is $10,000 and $5680 respectively. Noted May 20.

Randolph, Wis.—Plans have been prepared by W. S. Shields, Chicago, Ill., for the construction of a sanitary sewer system.

Keokuk, Iowa—Bids will be received until Sept. 9 by J. F. Winters, City Engr., for the construction of a sewer system.

Waterloo, Iowa—Plans are being prepared for the construction of a sewer system across the Black Hawk Creek and a sewage-disposal plant and lift station. The estimated cost is $75,000. Burns & McDonnell, 825 Scarritt Bldg., is Engr.

Brainerd, Minn.—Bids will be received until Sept. 20 by A. Mahlum, City Clk., for the construction of lateral sewers in District Nos. 4 and 7.

✚Sanstone, Minn.—(Official)—The contract for the construction of approximately 9025 ft. of 8- and 6-in. sewers has been awarded to CHARLES EKLUND & CO., Duluth, at $8289. Noted Aug. 5.

✚Stillwater, Minn.—The contract has been awarded to McGEE & NOLAN, Stillwater, at $7689, for the construction of sewers in Churchill, Fourth, Second and South Fourth St. Noted Aug. 12.

Chanute, Kan.—All bids received Aug. 20 by C. G. Wood, City Clk., for the construction of a sewage-disposal plant and septic tanks have been rejected. New bids will be received. Noted Aug. 12.

Coffeyville, Kan.—Plans are being prepared by the City Engineer for the enlargement of the sewer system.

Grand Island, Neb.—Plans are being prepared by Grant & Fulton, Lincoln, for the construction of a storm and sanitary sewer system.

✚Omaha, Neb.—The contract has been awarded to the OFFERMAN CONSTRUCTION CO., South Omaha, at $6947, for the construction of 800 ft. of 18-in. pipe sewers, 48 Y's 6x18-in., four manholes and 407 lb. of cast iron.

Aberdeen, S. D.—The city contemplates the construction of an addition to the sewage-disposal plant.

Centerville, S. D.—(Official)—Bids will be received until Sept. 20 by S. Christensen, City Audr., for the construction of a sewer system. The estimated cost is $25,000. Noted Aug. 5.

Whitehall, Mont.—Bids will be received until Sept. 18 by the city for the installation of a sewer system. George E. Bayer, Whitehall, is Consult. Engr. Noted June 24.

Harrisonville, Mo.—Plans have been prepared for the construction of a sewer system. The estimated cost is $17,000. W. B. Rollins, Kansas City, is Consult. Engr. Noted June 3.

★St. Louis, Mo.—(Official)—Bids will be received until noon, Sept. 14, by E. R. Kimsey, Pres. Bd. of Pub. Ser., for the construction of sewers in Des Peres Sewer District No. 3, Harlem Creek Sewer District Nos. 12 and 13, Penrose Joint Sewer District, and in Baden Sewer District No. 2.

Heber Springs, Ark.—(Official)—Bids will soon be received for the sale of $90,000 in bonds, the proceeds of which will be used for the construction of water and sewer systems. B. R. Brown is Recdr. Noted Aug. 19.

✚**Dallas, Tex.**—Bids were received Aug. 23, by J. B. Winslett, City Secy., for the construction of improved sewerage works, (a) Contract No. 5, North Interceptor, (b) Contract No. 6, pumping station, 36-in. force main and Oak Cliff trunk line across the Trinity River, (c) Contract No. 7, disposal works including 36-in. force main from Station No. 5 plus 88.7 to the disposal works as follows: General Construction Co., Ft. Worth, (a) $119,843; F. B. Horton & Son, Houston, (a) $109,423; Bailey, Reeder & Co., Mobile, Ala., (a) $80,708, (c) $417,058; Tarrant Construction Co., Ft. Worth, (a) $108,373; Winslett-Eldridge Co., Dallas, (a) $119,080; T. A. Garvin, San Antonio, (a) $81,195; Roach-Manigan Paving Co., Dallas, (a) $128,887, (b) $98,434, (c) $515,401; James Stewart & Co., Houston, (a) $131,484, (b) $107,630, (c) $527,269; Mayfield & Shaw, El Paso, (c) $545,988; H. C. Gass, San Antonio ,(c) $467,274. Noted July 29.

Claremore, Okla.—At a recent election the citizens defeated the question of issuing $25,000 in bonds, the proceeds of which was to have been used for the construction of storm sewers.

Bonners Ferry, Idaho—The city contemplates the construction of a sewer system estimated to cost $20,000.

✚**Lewiston, Utah**—The contract for the construction of a sewer system has been awarded to the WHEELWRIGHT CONSTRUCTION CO., Ogden, at $41,000.

✚**Logan, Utah**—The contract for the construction of sewers in Improvement District No. 2 has been awarded to PARROTT BROS., at $10,200.

Roslyn, Wash.—Bids will be received until 8 p.m., Sept. 13, by George T. Wake, City Clk., for the construction of sewers in local improvement Districts Nos. 1, 2, 3 and 4. Noted July 15.

Portland, Ore.—The city contemplates the construction of sewers in Water and Mill St. The estimated cost is $16,486. A. L. Barbur is City Audr.

Huntington Beach, Calif.—Bids will be received until Sept. 7 by the City Clerk for the construction of sewers in various streets including Tenth, 11th St. and Arcadia Ave.

✚**Los Angeles, Calif.**—The contract for the construction of the Myra Ave. sewer has been awarded to LAWRENCE SKOCHELICH, at $25,389.

✚**San Francisco, Calif.**—The Board of Public Works has awarded the contract to F. ROLANDI, at $4761, for grading and constructing sewers in Balba St.

Stockton, Calif.—Bonds for $550,00 have been sold. The proceeds will be used for the construction of storm water and sanitary sewer systems. Noted June 24.

Berlin, Ont.—Bids will be received until Sept. 7 by the city for the construction of sewage-disposal works, comprising tanks, filters, sludge beds and a pumping station. Chipman & Power, 204 Mail Bldg., Toronto, is Consult. Engr., and H. Johnston is City Engr. Noted July 22.

✚**South Vancouver, B. C.**—Contracts for sewer pipe have been awarded to McNEILL, WELCH & WILSON and to EVANS, COLEMAN & EVANS at $9000, and to the DOMINION GLAZED PIPE CO., at $20,000.

GARBAGE

Green Bay, Wis.—C. F. Hunter Co., Chicago, Ill., has undertaken a campaign to promote the construction of a garbage incinerator for the city. The estimated cost is $20,000.

✚**San Antonio, Tex.**—The contract has been awarded to the SAN ANTONIO MACHINERY & SUPPLY CO., at $11,985, for installing a Decarie incinerator.

✚**Victoria, Tex.**—The contract has been awarded to the SAN ANTONIO MACHINERY & SUPPLY CO., San Antonio, at $7050 for furnishing one 6-ton 10-hour incinerator. Noted Aug. 19.

STREETS AND ROADS

✚**Tiverton, R. I.**—The contract for constructing the Stafford Rd. has been awarded to L. H. CALLAN, Bristol, R. I., at $5780. Noted June 24.

✚**Hartford, Conn.**—Contracts for state road work have been awarded as follows: Waterford Township, a section of native stone macadam on the Hartford-New London Turnpike, to the FRAMINGHAM CONSTRUCTION CO., South Framingham, Mass., at $8000; Southington Township, a section of 2-in. bituminous macadam on Meriden Ave., to LEONARDO SUZIO, Meriden, at $8506; Durham Township, a section of 2-in. bituminous macadam on the Middlefield Rd., to FRANK ARRIGONI & BRO., Middletown, at $7360; North Haven Township, about 4950 lin.ft. trap rock macadam on the Mt. Carmel Rd., to A. D. BRIDGE'S SONS, INC., Hazardville, at $6412. Noted Aug. 5 and 26.

✚**Albany, N. Y.**—(Official)—Bids were received Aug. 24 by the State Highway Commission, Lancaster St., Albany, and contracts awarded for the construction of highways by state aid, as follows:

Road No. 1322, Allegany County, 7.29 miles: JOHN H. GORDON, Albany, $71,137 (awarded contract); Sullivan Construction Co., Syracuse, $74,584; Greenfield Construction Co., Hornell, $75,853; Bison City Engineering & Contracting Co., Inc., Buffalo, $77,301; W. C. Evans, Ambler, Penn., $82,556.

Road No. 52141-A, Broome County, 3.15 miles: LANE CONSTRUCTION CORPORATION, Meriden, Conn., $37,832 (awarded contract); F. P. Mecks, Long Pond, Penn., $38,254; Port Jervis Construction Co., Port Jervis, $41,723.

Road No. 1305, Cattaraugus County, 5.379 miles: DUNKIRK CONSTRUCTION CO., Dunkirk, $75,507 (awarded contract).

Road No. 1310, Chemung County, 4.02 miles: SULLIVAN CONSTRUCTION CO., Syracuse, $40,537 (awarded contract); Atlanta Construction Co., Atlanta, $40,867; F. L. Breeze, Elmira, $41,371; E. W. Walsh, Elmira, $41,382; McGreevey, McGuigan & Baum, Elmira, $42,336; Peter F. Connelly Co., Horseheads, $43,650; W. C. Evans, Ambler, Penn., $47,350.

Road No. 1311, Chemung County, 6.87 miles: J. W. BRENNAN CONSTRUCTION CO., INC., Geneva, $78,420 (awarded contract); Peter F. Connelly Co., Horseheads, $78,800; Sullivan Construction Co., Syracuse, $78,989; Weed & Walsh, Mechanicsville, $82,091; F. P. Meckes, Long Pond, Penn., $85,184; John Johnson Construction Co., Buffalo, $85,949; P. H. Murray, Rochester, $89,390.

Road No. 5585, Chenango-Madison County, 6.18 miles: CONROY & NIXDORF, Oneida, $47,814 (awarded contract); James Anderson, Menands, $50,472; Mondo Construction Co., Inc., Syracuse, $50,554; Newport Construction Co., Herkimer, $50,563; Paddelford & King, Sherburne, $50,629; Joseph McCormick, East Providence, R. I., $50,820; Charles O. McComb, Syracuse, $50,979.

Road No. 5574, Columbia County, 1.17 miles: BELMAR CONTRACTING CO., Troy, $31,786 (awarded contract); F. L. Bannin Plumbing, Heating & Contracting Co., Kingston, $33,676; Marks Kearney, Hudson, $34,603; Russell Parker Construction Co., Hudson, $34,762.

Road No. 1162, Dutchess County, 5.16 miles: CAIRNIE-ST. GEORGE CO., New York, $51,750 (awarded contract); DeGraff & Hogeboom, Kingston, $51,985; Amos D. Bridge's Sons, Inc., Hazardville, Conn., $52,066; Gruner & Hallenbeck, Harriman, $53,144; Abner M. Harper, Newburgh, $54,106; Conway Bros. & Kennedy, Eddyville, $54,536; Schunnemunk Construction Co., Highland Mills, $55,791; Samuel Beskin, Beacon, $55,893; Stanley Construction Co., Buffalo, $57,139.

Road No. 1163, Dutchess County, 6.18 miles: RUDDY-SAUNDERS CONSTRUCTION CO., Troy, $78,776 (awarded contract); Amos D. Bridges Construction Co., Hazardvile, Conn., $82,067; Cairnie-St. George Co., New York, $83,501; Stanley Construction Co., Buffalo, $84,263; Weed & Walsh, Mechanicsville, $85,007; Frank G. Fowler Construction Co., Mt. Kisco, $85,274; DeGraff & Hogeboom, Inc., Kingston, $85,508; H. B. Sproul Construction Co., Inc., Peekskill, $86,647; Abner M. Harper, Newburgh, $87,784; Ward & Tully, Inc., Brooklyn, $88,204.

Road No. 1235, Dutchess County, 5.44 miles: SCHUNNEMUNK CONSTRUCTION CO., Highland Mills, $52,327 (awarded contract); S. B. Van Wagonen, Rondout, $53,303; Henry Clinton, Poughkeepsie, $54,572; Samuel Beskin, Beacon, $54,729; Gruner & Hallenbeck, Harriman, $54,812; R. G. Miller Contracting Co., Hartford, Conn., $55,092; Fort Jervis Construction Co., Fort Jervis, $56,673; Pierson Engineering & Construction Co., Hartford, Conn., $56,952; H. B. Sproul Construction Co., Inc., Peekskill, $62,985.

Road No. 1312, Dutchess County, 6.81 miles: RUDDY-SAUNDERS CONSTRUCTION CO., Troy, $62,826 (awarded contract); Marks Kearny, Hudson, $63,376; Amos D. Bridge's Sons, Inc., Hazardville, Conn., $67,739; Juniata Co., Philadelphia, Penn., $70,271; H. B. Sproul Construction Co., Inc., Peekskill, $70,687; Langan Construction Co., Albany, $74,228; DeGraff & Hogeboom, Inc, Kingston, $74,564; Stanley Construction Co., Buffalo, $76,005; Samuel Beskin, Beacon, $76,997; John J. Guinan Contracting Co., Brooklyn, $71,921.

Road No. 1313, Dutchess County, 6.86 miles: A. C. STEINBERG, JR., West Hartford, Conn., $64,341 (awarded contract); James Anderson, Menands, $68,092; John J. Guinan Contracting Co., Brooklyn, $69,137; John De Michael & Bro., Torrington, Conn., $69,737; Juniata Construction Co., Philadelphia, Penn., $70,377; Samuel Beskin, Beacon, $70,919.

Road No. 1314, Dutchess County, 5.37 miles: AMOS D. BRIDGE'S SONS, INC., Hazardville, Conn., $44,956; John Arborio, New Haven, Conn., $45,994; Weed & Walsh, Mechanicsville, $47,299; Blankfield & Donovan, Kingston, $47,782; Samuel Beskin, Beacon, $48,627; H. B. Sproul Construction Co., Inc., Peekskill, $49,261; Juniata Co., Philadelphia, Penn., $49,489; R. G. Miller Contracting Co., Hartford, Conn., $50,907.

Road No. 1304, Erie County, 1.17 miles: SHAW & LAKIN, Jamestown, $26,878 (awarded contract); O. M. Severson, Erie, Penn., $27,736; William H. Ring Contracting Co., Ogdensburg, $29,147; William C. Evans, Ambler, Penn., $28,431.

Road No. 5583, Greene County, 4.77 miles: CATSKILL CONSTRUCTION CO., Catskill, $43,833 (awarded contract); S. V. Van Wagonen, Rondout, $45,552; Gruner & Hallenbeck, Harriman, $47,688; George H. McEvoy, Creek Locks, $46,284; Marks Kearney, Hudson, $45,980; Richard Hopkins, Troy, $48,929; James Anderson, Menands, $50,755.

Road No. 1318, Livingston County, Road No. 1319, Monroe County, 1.88 miles: RIBSTEIN-HOLTER CO., INC., Rochester, $42,565 (awarded contract); Whitmore-Rauber & Vicinius, Rochester, $43,393; Charles O. McComb, Syracuse, $44,660; Langan Construction Co., Albany, $45,196; Chambers & Barnes, Rochester, $45,228.

Road No. 1321, Livingston County, 8.34 miles: AIBERT GAFFEY, Syracuse, $100,840 (awarded contract); Atlanta Construction Co., Atlanta, $109,477; P. H. Murray, Rochester, $116,432; J. M. Ludington Sons, Inc., Rochester, $120,191.

Road No. 5586, Madison County, 7.91 miles: SULLIVAN CONSTRUCTION CO., Syracuse, $64,126 (awarded contract); Conroy & Nixdorf, Oneida, $65,491; Mondo Construction Co., Inc., Syracuse, $67,918; James Anderson, Menands, $69,459; Newport Construction Co., Herkimer, $71,509; Joseph McCormick, East Providence, R. I., $74,343.

Road No. 5539, Monroe County, 7.31 miles: NEWPORT CONSTRUCTION CO., Herkimer, $69,481 (awarded contract); William H. Madden, Rochester, $70,704; Frank V. Brotsch Co., Rochester, $71,209; P. H. Murray, Rochester, $71,666; Michael H. Ripton, Rochester, $72,434; Thomas Grady, Rochester, $72,870; Cleveland & Sons, Brockport, $72,907; Harradine Bros. Co., Inc., Spencerport, $74,138; Michael Murphy, Rochester, $74,977; Morrisson & Quinn, Inc., Rochester, $75,135.

Road No. 5581, Monroe County, 0.14 mile: MORRISSON & QUINN, INC., Rochester, $10,827 (awarded contract); Dodge Construction Co., Inc., Rochester, $11,160; Whitmore-Rauber & Vicnius, Rochester, $11,211; Public Service Construction Co., Niagara Falls, $11,327; Wood & Tompkins, Hilton, $11,615; W. C. Evans, Ambler, Penn., $11,754.

Road No. 5576, Ontario County, 4.69 miles: SWEENEY & BOLAND, Rochester, $2641 (awarded contract); Richard Hopkins, Troy, $2849.

Road No. 5428, Rockland County, 0.99 mile: PAUL SANGER, Monsey, $5371 (awarded contract).

Road No. 5388, Rockland County, 2.16 miles: HASTINGS PAVEMENT CO., New York, $15,200 (awarded contract); John A. Jova, Inc., Newburgh, $18,995; Schunnemunk Construction Co., Highland Mills, $19,359; Paul Gsanger, Monsey, $20,721.

✚**Albany, N. Y.**—(Official)—Bids were received Aug. 24 by the State Highway Commission, Lancaster St., Albany, and contracts awarded for the repair of highways by state aid, as follows:

Repair Contract No. 850, Road No. 592, Cayuga County, 2.35 miles: RICHARD HOPKINS, Troy, $13,267 (awarded contract); J. H. Weidman, Syracuse, $13,374; M. J. Gleason, Syracuse, $13,634; Dana W. Robbins, Inc., New York, $13,987; Brayer Bros., Auburn, $14,138; Sweeney & Boland, Rochester,

$14,228; Edward S. Spyring, Syracuse, $14,835; Flood & Van Wirt Co., Hudson Falls, $14,937; Arthur F. McConvill, Ogdensburg, $15,181.

Repair Contract No. 849, Road No. 1016, Cayuga County, 3.14 miles: RICHARD HOPKINS, Troy, $21,550 (awarded contract); M. J. Gleason, Syracuse, $21,554; Semper Bros., Watertown, $22,527; W. J. Young, Locke, $22,757; Flood & Van Wirt Co., Hudson Falls, $22,790; Dana W. Robbins Co., Inc., New York, $22,933; Brayer Bros., Auburn, $23,794.

Repair Contract No. 846, Road No. 589, Columbia County, 3.81 miles: GEORGE HOLLER, Albany, $8814 (awarded contract); Thomas J. Martin, Beacon, $8886; William Doyle, Saugerties, $9135; Richard Hopkins, Troy, $9578; Jerry Sweeney, New Brighton, $9745.

Repair Contract No. 836, Road No. 376, Fulton County, 2.38 miles: CLARENCE WELCH & CO., Gloversville, $12,134 (awarded contract); John P. Dugan & Co., Amsterdam, $12,497.

Repair Contract No. 845, Road No. 436, Nassau County, 2.50 miles: EVERGREEN CONSTRUCTION CO., Long Island City, $8366 (awarded contract); Delta Contracting Co., Inc., Jamaica, $9416; William Doyle, Saugerties, $9364; Murray & Gardner, Center Moriches, $9708.

Repair Contract No. 842, Road No. 207, Ontario County, 0.60 mile: J. W. BRENNAN CONSTRUCTION CO., INC., Geneva, $12,284 (awarded contract); Connors & Gallivan Co., Elmira, $12,436; Schroder-Hicks Contracting Co., Rochester, $12,632.

Repair Contract No. 840, Road No. 228, Ulster County, 4.82 miles: JOHN F. GALLIVAN, Kingston, $18,812 (awarded contract); Blankfield & Donovan, Kingston, $20,441; Port Jervis Construction Co., Port Jervis, $20,759; L. F. Bannin Plumbing, Heating & Contracting Co., Kingston, $20,871; Gruner & Hallenbeck, Harriman, $21,641; DeGraff & Hogeboom, Kingston, $22,355.

Repair Contract No. 851, Road No. 694, Suffolk County, 3 miles: Murray & Gardner, Inc., Center Moriches, $10,186; Teconic Construction Co., Port Jervis, $11,880; MUNICIPAL ASPHALT CO., New York, $9125 (awarded contract). Noted Aug. 12.

Albany, N. Y.—(Official)—Bids were received Aug. 26 by the State Highway Commission, 55 Lancaster St., Albany, for the construction of highways by state aid, as follows:

Road No. 5588, Greene County, 3.95 miles: James M. Hamilton & Co., Gardner, $98,639; St. Lawrence Construction Co., Inc., Albany, $115,940; Abner M. Harper, Inc., Newburgh, $117,149; James Anderson, Menands, $117,469; Stanley Construction Co., Buffalo, $120,523; George H. McAvoy, Creek Locks, $122,058; William G. Fox, Saratoga Springs, $122,311; Ward & Tully, Inc., Brooklyn, $125,264; Fulton Engineering Co., Albany, $125,785.

Road No. 5579, Herkimer County, 6.55 miles: Newport Construction Co., Herkimer, $63,077; James Anderson, Menands, $63,357; Joseph McCormick, East Providence, R. I., $67,782.

Road No. 5584, Herkimer County, 4.21 miles: Joseph McCormick, East Providence, R. I., $46,423; Newport Construction Co., Herkimer, $48,957.

Road No. 773, Niagara County, 2.38 miles: F. J. Mumm Contracting Co., Buffalo, $23,424.

Road No. 799, Niagara County, 4.21 miles: Arthur F. McConville, Ogdensburg, $53,156; Greenfield Construction Co., Hornell, $54,245; Joseph Brumver, Buffalo, $54,909; Woolsey Construction Co., Poughkeepsie, $55,178; Garradine Bros. Co., Inc., Spencerport, $57,253; F. J. Mumm Contracting Co., Inc., Buffalo, $59,255.

Road No. 1315, Niagara County, 8 miles: Joseph Brumver, Buffalo, $97,340; Serviss & Mackey, Youngstown, $101,902; Thomas F. Shaughnessy, Albany, $104,380; Cold Spring Construction Co., Buffalo, $105,307; Woolsey Construction Co., Poughkeepsie, $112,286.

Road No. 1153, Niagara County, 1.27 miles: Greenfield Construction Co., Hornell, $69,644; Caleb Hyatt, Yonkers, $70,101; Langan Construction Corporation, Albany, $71,184; Public Service Contracting Co., Niagara Falls, $73,694; C. N. Stainthorpe, Lockport, $74,353; C. B. Whitmore Co., Lockport, $78,476.

Road No. 5408, Oswego County, 0.36 mile: Oswego Construction Co., Fulton, $16,490; William H. Ring Contracting Co., Ogdensburg, $16,495; J. E. Bishop, Syracuse, $16,866; F. P. Meckes, Long Pond, Penn., $17,261; Bison City Engineering & Contracting Co., Inc., Buffalo, $17,284; J. J. Cashin, Fayetteville, $17,326; E. S. Spyrting, Syracuse, $17,639.

Road No. 817, Saratoga County, 3.57 miles: John Arborio, New Haven, Conn., $34,960; Weed & Walsh, Mechanicsville, $35,092; John B. Dower, Ballston Spa, $35,700; Thomas H. Karr, Troy, $36,437; D. J. Snell & Co., Canajoharie, $36,783; William G. Fox, Saratoga Springs, $38,158; Juniata Co., Philadelphia, Penn., $38,316.

Road No. 1320, Schuyler County, 2.75 miles: Patrick D. Conley, Ithaca, $25,380; Richard Hopkins, Troy, $26,804; James Rossney, Buffalo, $27,202; John H. Gordon, Albany, $28,267; Bison City Engineering & Contracting Co., Buffalo, $28,750; McGuigan, McGreevey & Baum, Elmira, $29,260; Hendrickson-McCabe Construction Co., Spencerport, $30,838.

Road No. 5575, Schuyler and Tompkins Counties, 4.12 miles: Patrick D. Conley, Ithaca, $35,160; James Rossney, Buffalo, $36,808; Sullivan Construction Co., Syracuse, $37,784; Bison City Engineering & Contracting Co., Inc., Buffalo, $38,255; Hendrickson-McCabe Construction Co., Inc., Spencerport, $40,026; John H. Gordon, Albany, $40,054; W. C. Evans, Ambler, Penn., $41,911.

Road No. 5577, Schoharie County, 7.96 miles: Weed & Walsh, Mechanicsville, $91,046; Newport Construction Co., Herkimer, $91,697; James Anderson, Menands, $94,459.

Road No. 5253-E, Steuben County, 5.52 miles: Kennedy Construction Co., Albany, $38,796; Greenfield Construction Co., Hornell, $41,320; John C. Bradley, Corning, $43,573; T. H. Gill Co., Binghamton, $43,71[illegible] Bison City Engineering & Contracting Co., Buffalo, $47,555; [illegible]. H. Murray, Rochester, $47,809; W. C. Evans, Ambler, Penn., 4$9,068; Thomas Grady, Rochester, $49,978.

Road No. 1076, Tioga County, 4.29 miles: Dana W. Robbins Co., Inc., New York, $35,354; T. H. Gill Co., Binghamton, $35,841; Richard Hopkins, Troy, $36,166; Sullivan Construction Co., Syracuse, $36,190; Atlanta Construction Co., Atlanta, $36,210; F. P. Meckes, Long Pond, Penn., $36,963; Lane Construction Corporation, Meriden, Conn., $37,369.

Road No. 1077, Tioga County, 4.72 miles: Lane Construction Corporation, Meriden, Conn., $36,148; T. H. Gill Co., Binghamton, $39,279; Dana W. Robbins, Inc., New York, $39,508; Sullivan Construction Co., Syracuse, $39,559; Richard Hopkins, Troy, $39,796; Atlanta Construction Co., Atlanta, $39,916; Peter F. Connolly Co., Horseheads, $40,826.

Road No. 1109, Washington County, 2.06 miles: William L. Sherrill, Hudson Falls, $16,975; Juniata Co., Philadelphia, Penn., $17,831; Kellogg Boynton, Keeseville, $17,966; Thomas H. Karr, Troy, $18,128; A. G. & D. T. Perry, Brattleboro, Vt., $18,663.

Road No. 5578, Washington County, 1.89 miles: William G. Fox, Saratoga Springs, $29,582; Thomas H. Karr, Troy, $31,291; John B. Dower, Ballston Spa, $32,058; Kellogg Boynton, Keeseville, $32,365.

Road No. 1306, Westchester County, 5.72 miles: Pierson Engineering & Construction Co., Hartford, Conn., $66,410; Frank G. Fowler Construction Co., Mt. Kisco, $68,307; Harris-Rose Construction Corporation, New York, $68,619; John De Michael & Bro., Torrington, Conn., $70,904; Amos D. Bridge's Sons, Inc., Hazardville, Conn., $71,630; Gruner & Hallenbeck, Harriman, $73,922; H. B. Sproul Construction Co., Inc., Peekskill, $78,068.

Road No. 1307, Westchester County, 1.89 miles: James Ciascia & Vincent Cartesi, Mt. Vernon, $22,231; Frank G. Fowler Construction Co., Mt. Kisco, $25,276; H. B. Sproul Construction Co., Peekskill, $27,428.

Road No. 1308, Westchester County, 2.15 miles: James Garofano & Son, Mt. Vernon, $24,738; James Ciascia & Vincent Cartesi, Mt. Vernon, $25,700; John De Michael & Bro., Torrington, Conn., $26,040; Frank G. Fowler Construction Co., Mt. Kisco, $26,109; Caesar A. Rossi, Harrison, $26,253; White & Colligan, Purchase, $26,256; H. B. Sproul Construction Co., Inc., Peekskill, $26,531.

Road No. 1309, Westchester County, 6.63 miles: Henry Clinton, Poughkeepsie, $67,954; Conway Bros. & Kennedy, Eddyville, $71,653; H. B. Sproul Construction Co., Inc., Peekskill, $73,168; Frank G. Fowler Construction Co., Mt. Kisco, $76,788.

Road No. 1323, Westchester County, 4.62 miles: Frank G. Fowler Construction Co., Mt. Kisco, $49,183; H. B. Sproul Construction Co., Inc., Peekskill, $51,389; William F. McCabe Construction Co., Inc., White Plains, $58,528.

Road No. 1325, Westchester County, 2.81 miles: H. B. Sproul Construction Co., Inc., Peekskill, $25,795; James Garofano Sons, Inc., Mt. Vernon, $25,841; Frank G. Fowler Construction Co., Mt. Kisco, $26,277; Amos D. Bridge's Sons, Inc., Hazardville, Conn., $26,710; James Ciascia & Vincent Cartesi, Mt. Vernon, $26,973; Gruner & Hallenbeck, Harriman, $27,702; Harris-Rose Construction Corporation, New York, $28,135.

Road No. 1324, Westchester County, 3.02 miles: H. B. Sproul Construction Co., Inc., Peekskill, $28,858; Caesar A. Rossi, Horicon, $28,071; Gruner & Hallenbeck, Harriman, $29,120; James Garofano & Son, Inc., Mt. Vernon, $29,129; Frank G. Fowler Construction Co., Mt. Kisco, $29,827; Harris-Rose Construction Corporation, New York, $30,113; John A. Jova, Inc., Newburgh, $30,834.

Albany, N. Y.—(Official)—Bids were received Aug. 26 by the State Highway Commission, 55 Lancaster St., Albany, for the repair of highways by state aid, as follows:

Repair Contract No. 839, Road No. 463, Herkimer County: J. J. Malloy, Schenectady, $18,797; Huntoon & Ferguson, Hudson Falls, $20,088; Michael O'Brien, Cortland, $20,321; Newport Construction Co., Herkimer, $20,366; B. J. Gaffney, Saratoga Springs, $22,127; Port Schuyler Construction Co., Inc., Oneida, $22,161; R. D. Cooper, Little Falls, $22,224.

Repair Contract No. 852, Road No. 359, Herkimer County: John P. Dugan & Co., Amsterdam, $10,360; Newport Construction Co., Herkimer, $10,569; Harry W. Roberts Co., Utica, $10,990; Phelan & Sullivan, Utica, $11,242; Dana W. Robbins, Inc., New York, $11,361.

Repair Contract No. 848, Road No. 71, Oneida County: Harry W. Roberts & Co., Utica, $13,649.

Repair Contract No. 841, Road No. 733, St. Lawrence County: Arthur F. McConville, Ogdensburg, $20,551; Kellogg Boynton, Keeseville, $21,878.

Repair Contract No. 844, Road No. 640, Schenectady County: J. J. Malloy, Schenectady, $8706; John P. Dugan Co., Amsterdam, $8923; Huntoon & Ferguson, Hudson Falls, $8936; Brown & Lowe Co., Schenectady, $10,196.

Repair Contract No. 837, Roads Nos. 795, 823 and 824, Sullivan County: George Mesler, Liberty, $4518; L. F. Bannin Plumbing, Heating & Contracting Co., Kingston, $4839; Port Jervis Construction Co., Port Jervis, $4857; Nash & Griffin, Norwich, $5011; Kelly & Wheeler, Buffalo, $5190; Armstrong & Trowbridge, Middletown, $6065; Thomas J. Martin, Beacon, $7230.

Repair Contract No. 843, Road No. 5223, Sullivan County: Armstrong & Trowbridge, Middletown, $41,492; George Mosler, Liberty, $42,327; Jackson Bros., Cuddebackville, $43,376; Port Jervis Construction Co., Port Jervis, $44,500.

Repair Contract No. 838, Road No. 503, Westchester County: Malloy & Murray Contracting Co., Yonkers, $96,2434; Lewis Petrillo, Mt. Vernon, $97,517; Caleb Hyatt, Yonkers, $98,515; Borough Asphalt Co., Brooklyn, $101,302.

Repair Contract No. 847, Road No. 19, Westchester County: James Garofano & Son, Inc., Mt. Vernon, $11,359; White & Colligan, Purchase, $11,755; William F. McCabe Contracting Co., Inc., White Plains, $12,576; Miguell Houck, White Plains, $12,687; John A. Jova, Inc., Newburgh, $12,963. Noted Aug. 12.

✦Clifton Springs, N. Y.—A contract for constructing approximately 1100 lin.ft. of road with curb and gutters has been awarded to THOMAS MURRAY, Le Roy, at $5447.

✦Cohoes, N. Y.—The contract for paving Garner St. from Johnston Ave. to the New York Central R.R. viaduct has been awarded to the THOMAS F. GRATTON CONSTRUCTION CO., Cohoes, at $21,199.

Dunkirk, N. Y.—James McNamara, Dunkirk, submitted the lowest bid for paving Woodrow Ave. (Bass St.) from Fourth to Sixth St.

Farmingdale, N. Y.—Bids will be received by James T. Holle, Secy., Bd. of Trustees, 16 Court St., New York, N. Y. (Borough of Brooklyn), until Sept. 8, for constructing concrete walks at the New York State School of Agriculture.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Boro. Pres., Municipal Bldg., 177th St. and Third Ave., until 10:30 a.m., Sept. 8, for road improvements on Haviland Ave.

✝New York, N. Y.—(Borough of Manhattan)—The contract for paving with asphalt 25th, 55th, 65th, 67th, 80th and 85th St., has been awarded to the SICILIAN ASPHALT PAVING CO., 41 Park Row, at $56,500.

✝Niagara Falls, N. Y.—The contract for paving 14th St. from Pine to Terry Ave. has been awarded to McKINNEY & MAGUIRE, at $15,000.

Oneonta, N. Y.—(Official)—Bids will be received until 8 p.m., Sept. 6, by Sheldon H. Close, City Clk., for paving a number of streets with concrete.

✝Rochester, N. Y.—Contracts have been awarded for paving Aberdeen and Marion St. with asphalt, to WHITMORE, RAUBER & VICINUS, at $9332 and $9252 respectively; Oneida St. with brick to the FLOWER CITY CONTRACTING CO., at $4776.

✝Schenectady, N. Y.—Contracts have been awarded for paving Watt St. to the SCHENECTADY CONSTRUCTION CO., Schenectady, at $14,641; Maplewood and 19th Ave. to the UNION PAVING CO., Schenectady, at $17,997.

✝Syracuse, N. Y.—The contract for paving Euclid Ave. and Pine St. has been awarded to the SCHENECTADY PAVING CO., Schenectady, at $7598 and $8850, respectively.

Watertown, N. Y.—The Board of Public Works has authorized the construction of 14 additional ft. of concrete pavement on Coffeen St. from Cedar St. to a point 50 ft. below Fair St. Bids for this work were received from Guy H. Miller, $4924; Gooley & Willard, $5102; A. F. Nims, Philadelphia, $5073; Burns Bros. & Haley, $4955.

Newark, N. J.—Bids were received Aug. 26 for paving Eckert Ave. from Seymour Ave. to Osborne Terrace as follows: Northern Construction Co., $5072; Uvalde Asphalt Co., $5719; Continental Public Works Co., $5463. Noted July 22.

✝Roseland, N. J.—The contract for paving Portland St. with macadam has been awarded to ROBERT DORIETY, 166 Ridge St., Newark.

★Bethlehem, Penn.—(Official)—Bids will be received until noon, Sept. 11, by Milton M. Mitman, Chn. of Street Com., 403 South Main St., for paving Linden St., Broad St., Main St. and Prospect Ave. A. M. Cawley, First National Bank Bldg., is Borough Engr. Noted Aug. 26.

Harrisburg, Penn.—(Official)—Bids will be received by the State Highway Department until 10 a.m., Sept. 15, for reconstructing 22,999 lin.ft. of road in Henderson Township, Huntingdon County, and 11,987 lin.ft. of road in East Marboro Township, Chester County.

✝Lewisburg, Penn.—The contract for paving Market St. has been awarded to WILLIAM LYONS, Sunbury, at $6000.

Philadelphia, Penn.—The lowest bids received for the repair of asphalt pavements were those of the Barber Asphalt Paving Co., at $5535 and $55,762. Noted Aug. 19.

✝Philadelphia, Penn.—The Department of Public Works has awarded the contract for repaving Chelton Ave. to the McMAHON ESTATE, Germantown, at $23,000.

Pittsburgh, Penn.—(Official)—Bids will be received until 10 a.m., Sept. 9, by Hyatt M. Crilbs, County Controller, for improving the Elkhorn and Monongahela City Rd., Lincoln Way Extension and Round Road Hill Rd.

Reading, Penn.—Press reports state that the City Council contemplates an expenditure of $19,000 for paving various streets. Edmond Ulrich is City Engr.

Saxonburg, Penn.—(Official)—Bids will be received until 7 p.m., Sept. 7, by E. L. Rudert, Borough Clk., for improving Main St.

✝Wilkinsburg, Penn.—(Official)—A contract for regrading, recurbing and repaving a number of streets has been awarded to A. V. PURNELL, 507 Jackson St., Allegheny, at $38,890. Noted Aug. 19.

Wilmington, Del.—The City Council has authorized a bond issue of $200,000, the proceeds of which will be used for improving a number of streets.

✝Cecilton, Md.—The contract for constructing a stone road from Warwick to Cecilton has been awarded to the JUNIATA PAVING CO., Philadelphia, Penn., at $37,000.

Denton, Md.—(Official)—Bids will be received until noon, Sept. 21, by the Commissioners of Caroline County for constructing a section of State Aid Highway in Caroline County along the Marydel and Templeville Rd. between Marydel and Templeville, for a distance of 2.06 miles.

Hagerstown, Md.—A contract for paving 1.86 miles of State Aid Highway in Washington County with macadam has been awarded to HOLLINGER & DENNIS, Clear Springs, Md., at $7981. Noted Aug. 12.

Accomac, Va.—Bids will be received until Sept. 7 by John D. Grant, Jr., Clk., County Bd. of Superv., for the sale of $30,000 in bonds. The proceeds will be used to improve the roads in Atlantic, Lee and Pungoteague Districts.

★Charleston, W. Va.—(Official)—Bids will be received until noon, Sept. 7, by B. A. Wise, City Mgr., for paving certain streets and alleys in the city of Charleston.

Wellsburg, W. Va.—Bids will be received until Sept. 4 by the County Court of Brooke County for paving the county road from the north end of Follansbee to the south end of Follansbee to the south end of Bates' Bridge. M. E. Boyd is Engr.

✝Concord, N. C.—The contract for paving West Depot St. from the intersection of Spring St. to the depot and Church St. from East Corbin to the east depot has been awarded to R. M. HUDSON, Atlanta, at $40,000.

Gastonia, N. C.—(Official)—Bids will be received until noon, Sept. 9, by the Commissioners of Gaston County, for the sale of $150,000 in bonds, the proceeds of which will be used for constructing roads in Gaston County. Noted June 24 and Aug. 19.

Roxboro, N. C.—Bonds for $15,000 will be sold. The proceeds will be used for improving a number of streets.

✝Arcadia, Fla.—The Commissioners of De Soto County have awarded the contract to the ALABAMA PAVING CO., Birmingham, Ala., for constructing 11½ miles of rock roads in the Wauchula-Bowling Green Rd. District.

Clearwater, Fla.—At a recent election the citizens voted in favor of issuing $715,000 in bonds, the proceeds of which will be used for constructing 78 miles of brick highway.

Ft. Myers, Fla.—According to press reports a road will be constructed between Ft. Myers and Naples and between Naples and Marco. Bonds for $177,500 have been voted for this purpose. Noted May 27.

✝Ft. Myers, Fla.—A contract for paving three miles of streets with brick has been awarded to the Southern Clay Mfg. Co., Chattanooga, Tenn.

Gulfport, Fla.—An election will be held Oct. 19 to vote on the question of issuing $10,000 in bonds, part of the proceeds of which will be used for constructing two miles of modified asphalt streets.

✝Kissimmee, Fla.—A contract for constructing three miles of brick road has been awarded to the ALABAMA PAVING CO., Orlando, Fla., at $28,000. Bonds for this purpose have been voted. Noted Aug. 5.

Kissimee, Fla.—At a recent election the citizens voted in favor of issuing $12,000 in bonds, the proceeds of which will be used for paving Main St.

Tallahasse, Fla.—An election will be held in Leon County, Sept. 21, to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for constructing various roads, including $100,000 for the Dixie Highway. J. C. Moore is Chn. of the Comrs. of Leon County.

✝Tarpon Springs, Fla.—The contract for widening and repaving Orange St. with brick has been awarded to the J. B. McCRARY CO., Atlanta, Ga.

West Palm Beach, Fla.—Bids will be received until Sept. 7 by the Commissioners of Palm Beach for constructing and hard surfacing the main county line in District No. 5. F. E. Encell is Chn. of the Comrs.

Carrollton, Ala.—Bids will be received until Sept. 22 by the Pickens County Commissioners for grading, draining and surfacing with gravel or sand-clay a portion of the Carrollton and Reform Rd., at an estimated cost of $11,159.

Gadsden, Ala.—Press reports state that the Commissioners of Etowah County will construct 7½ miles of the Turkeytown Rd. The work will be done by convict force.

Linden, Ala.—Bids will be received until Sept. 7 by A. L. Hasey, Comr. of Marengo County, for the construction of approximately 40 miles of sand-clay road in Marengo County. S. W. Gaines, Jr., Selma, is Engr.

Montgomery, Ala.—Bonds for $152,000 will soon be sold. The proceeds will be used for street improvements.

Russellville, Ala.—At a recent election the citizens of Franklin County voted in favor of issuing $145,000 in bonds, the proceeds of which will be used for building a pike road.

Clarksdale, Miss.—Bids will be received until Sept. 6 by S. S. Carr, Chancery Clk., for constructing two miles of gravel road in Supervisors' District No. 1, Coahoma County.

Columbus, Miss.—The construction of a road from Columbus, Miss., to Vernon, Ala., is contemplated by the Commissioners of Lamar and Lowndes Counties.

Macon, Miss.—Bids will be received until Sept. 6 by John A. Tyson, Chancery Clk., for improving roads in Noxubee County.

Magnolia, Miss.—Bids will be received until Sept. 6 by Charles E. Brumfield, Clk., County Bd. of Superv., for the sale of $100,000 in bonds, the proceeds of which will be used for improving the roads in Fourth Supervisors District.

Lake Charles, La.—Bids will be received by E. C. House, Clk., Police Jury, until Sept. 7, for constructing 6½ miles of gravel road on Highway No. 6 and 5 miles on Highway No. 8.

Dickson, Tenn.—At a recent election, the question of issuing $250,000 in bonds, the proceeds to be used for constructing roads in Dickson County, was defeated.

Clarksville, Tenn.—Bonds for $50,000 have been sold, the proceeds of which will be used for improving and constructing roads in Montgomery County.

Huntsville, Tenn.—At a recent election the citizens of Scott County voted in favor of the question of issuing $300,000 in bonds, the proceeds of which will be used for improving various roads.

Maryville, Tenn.—At a recent election the citizens of Blount County voted in favor of issuing $300,000 in bonds, the proceeds of which will be used for constructing roads, pikes and macadamizing roads already graded. Noted Feb. 11 and June 24.

Rogersville, Tenn.—Bids will be received until Sept. 6 by H. B. Stamps, Chn., County Court, for the sale of $250,000 in bonds, the proceeds of which will be used for improving a number of roads.

Rutledge, Tenn.—An election will be held Sept. 9 to vote on the question of issuing $200,00 in bonds, the proceeds of which will be used for constructing roads in Grainger County. Noted Aug. 12.

Louisville, Ky.—(Official)—Bids will be received until 2 p.m., Sept. 7, by the Board of Public Works for improving various streets.

✝Whitesburg, Ky.—The contract for grading and draining the road from Whitesburg to Corbin has been awarded to M. A. WHEELER at $42,000.

✝Bowling Green, Ohio—Contracts have been awarded for grading, draining and macadamizing Snell Rd. to N. L. DECKARD, Bowling Green, at $8943; Minning Rd., to OTTO BROUGH, Genoa, at $8611; Kearning Joint Rd. to THOMAS CONSTRUCTION CO., Sandusky, at $8994. Noted July 29.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 7, by Philip Fosdick, Dir. Pub. Ser., for improving Gest St. from Freeman Ave. to Baymiller St.

✚Cleveland, Ohio—(Official)—The contract for improving Lorain Ave. from West 73rd to West 98th St. has been awarded to ROEHL BROS., Thompson Bldg., Cleveland, at $62,893. Noted Aug. 19.

Columbus, Ohio—Bonds for $100,500 have been sold. The proceeds will be used for improving various roads.

Columbus, Ohio—Bids will be received until noon, Sept. 7, by George A. Borden, Dir. Pub. Ser., for paving Nelson Rd. and Rhoades Ave.

✚Columbus, Ohio—Bids were received Aug. 20 by Clinton Cowen, State Highway Comr., and contracts awarded for road construction in various counties as follows: Fulton County, Archbold-Fayette Rd., 1 mile of macadam to the KELLY CONSTRUCTION CO., $7400. Fulton County, Toledo-Angola Rd., 2.52 miles of waterbound macadam to GRAY BROS., Bowling Green, $20,500. Guernsey County, Cambridge-Caldwell Rd., bituminous macadam to PETROS & PALMER, Marietta, $27,400. Lucas County, Toledo-Napoleon Rd., 3.11 miles of waterbound macadam to C. W. RYAN, Maumee, to L. L. ALLEN, La Rue, $9159. Delaware County, Columbus-Sandusky Rd., 1.44 miles of waterbound macadam to JOHN McNAMARA, JR., Delaware, $8130. Noted Aug. 19.

✚Columbus, Ohio—Contract. for road improvements have been awarded by the Franklin County Commissioners as follows: Mock Rd. to B. F. PATTERSON, Columbus, $59,250; Manhattan Ave., Linden, to R. W. McCOY, Columbus, $9135; McDonald Rd., Truro Township, to H. E. BARTHMAN, Columbus, $10,087; Harl Rd., Sharon Township, W. O. JEWETT, Columbus, $11,095. Noted Aug. 5.

Elyria, Ohio—Bids will be received until 1 p.m., Sept. 8, by F. L. Ellenburger, Clk. of the Lorain County Comrs., for resurfacing the La Grange-North Center Rd. with bituminous bound macadam.

Northfield, Ohio—(Official)—Bids will be received until 7:30 p.m., Sept. 7, by C. S. Machwart, Village Clk., for improving the Brandywine Rd. from the Brecksville-Macedonia Rd. to the intersection of the Lock Rd.

Oakharbor, Ohio—Bids will be received until Sept. 7 by the Village Clerk for paving 2500 sq.yd. with brick or asphaltic concrete.

✚Toledo, Ohio—The contract for paving Miami St. has been awarded to NAVARRE HARRIS & TANSEY, Toledo, at $15,523.

Uhrichsville, Ohio—Bonds for $25,000 have been sold. The proceeds will be used for paving Dawson St.

Warren, Ohio—(Official)—Bids will be received until noon, Oct. 2, by George T. Hecklinger, City Audr., for the sale of $19,800 and $7800 in bonds, the proceeds of which will be used for paving Homewood Ave. and East Franklin St., respectively.

Woodsfield, Ohio—Bids will be received by the County Commissioners until Sept. 8 for the sale of $20,000 in bonds, the proceeds of which will be used for improving a number of roads.

Wooster, Ohio—Bids will be received until noon, Sept. 10, by Peter C. Given, Dir. Pub. Ser., for paving North Buckeye St. with brick.

Zanesville, Ohio—Ayers & Kappes, Zanesville, at $128,555, submitted the lowest bid for improving Adamsonville Rd.

✚Brownstown, Ind.—A contract for paving approximately 17 blocks with concrete has been awarded to H. E. KATTMAN, Brownstown, at $19,931. Noted July 29.

✚Ft. Wayne, Ind.—A contract for constructing a stone road in Perry Township has been awarded to J. C. O'CONNOR & SON, Delphi, at $12,385.

Indianapolis, Ind.—The Board of Public Works plans to resurface Capitol Ave. from Indiana Ave. to Tenth St. Estimated cost, $62,984.

Mt. Vernon, Ind.—Bids will be received until Sept. 7 by the County Commissioners for constructing two gravel roads in Black Township. J. R. Haines is County Audr.

New Albany, Ind.—According to press reports the County Commissioners contemplate the construction of a road between New Albany and Indianapolis to connect with proposed Dixie Highway.

Adrian, Mich.—Press reports state that Fairfield Township plans to construct a seven-mile stone road as part of a trunk line connection Adrian with northern Ohio.

✚Belding, Mich.—(Official)—A contract for paving a number of streets with metropolitan wire cut lug block on a 6-in. concrete foundation with concrete curb and grout filler has been awarded to A. H. PRANGE, Grand Rapids, at $39,196.

✚Deerfield, Mich.—The contract for constructing 12.5 miles of macadam roads has been awarded to W. H. KNAPP, Monroe, at $66,010. Noted Aug. 12.

✚Lansing, Mich.—A contract for paving the drives at the Capitol with cresoted wood blocks has been awarded to WILLIAM H. RYAN, Lansing.

✚Aurora, Ill.—The contract for paving South St. with brick has been awarded to J. E. SALFISBERG & CO., at $14,639. Noted July 22.

✚Champaign, Ill.—A contract for constructing 11,200 sq.yd. of brick pavement with asphalt filler has been awarded to STIPES & PILCHER, 108 North Walnut St., Champaign, at $33,000.

✚East Dubuque, Ill.—The contract for paving Sinsinawa Ave. has been awarded to the MIDWEST CONSTRUCTION CO., Chicago, at $14,000.

Freeport, Ill.—Plans have been received by Oscar G. Hiveley, Supt. of Stephenson County, for improving Globe Ave., estimated cost $7819.

✚Glenellyn, Ill.—A contract for paving various streets with granite has been awarded to the ILLINOIS HYDRAULIC STONE & CONSTRUCTION CO., Elgin, at $74,000. Noted June 17.

✚Kankakee, Ill.—The contract for paving North Fifth St. with brick has been awarded to F. L. SHIDLER, at $17,944.

✚Mt. Carmel, Ill.—A contract for grading and graveling 14 miles of road in the Mt. Carmel Rd. District has been awarded to HOFFMAN, TOWNSEND & PARKS, Mt. Carmel, at $57,[illegible]. Noted Aug. 5.

✚Peoria, Ill.—The A. D. THOMPSON CO., Peoria, at $14,[illegible], has been awarded a contract for paving with brick a part of Frye Ave.

Columbus, Wis.—Bids will be received until 3 p.m., Sept. 14, by Benjamin Paepke, City Clk., for improving a portion of Madison Rd.

West Allis, Wis.—Bids will be received until 7.30 p.m., Sept. 3, by the Acting Board of Public Works for paving portions of Mitchell St., 60th Ave., Greenfield Ave. and National Ave. George Mahoney is City Clk.

Des Moines, Iowa—Bids will be received until 10 a.m., Sept. 8, by A. H. Davis, Secy., Executive Council State Capitol, for grading grounds and streets of extended capitol grounds.

Guthrie Center, Iowa—Bids will be received until Sept. 20 by Seth B. Weeks, Town Clk., for paving approximately 20 blocks with sheet asphalt, asphaltic concrete, bitulithic, vitrified brick or concrete.

Idagrove, Iowa—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds, the proceeds of which will be used for paving a number of streets.

✚Duluth, Minn.—The contract for paving 21st Ave. from Fourth St. to Seventh Alley has been awarded to HILLIARD & JULIEN, at $5522.

St. Paul, Minn.—The City Council has authorized bond issues for $6500 and $20,000, the proceeds of which will be used for paving Fourth St. from St. Peter St. to the Seven Corners and Fifth St. from Broadway to St. Peter St. respectively.

Junction City, Kan.—Bids will be received until Sept. 7 by the Commissioners of Geary County for constructing one mile of concrete road.

Kearney, Neb.—An election will be held Sept. 7 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for street paving.

✚Lincoln, Neb.—(Official)—A contract for street paving in District No. 8 has been awarded to the BURKE-COCHRANE CO., Lincoln. Noted Aug. 12.

✚Sioux Falls, S. D.—The contract for paving Main St. from Fifth to 13th St. with bitulithic has been awarded to WARREN BROS., Boston, Mass.

Jefferson City, Mo.—An election will be held Oct. 19 to vote on the question of issuing $100,000, in bonds, the proceeds to be used for road construction in Cole County.

Kansas City, Mo.—Bids will be received about Sept. 14 by the City Council for improving portions of a number of streets.

✚Sedalia, Mo.—(Official)—The contract for surfacing approximately 2½ miles of rock road in Sedalia Special Rd. District has been awarded to LEE CARPENTER, Sedalia. Noted Aug. 19.

✚Russellville, Ark.—A contract for constructing 26 miles of macadam road from Russellville to Hector has been awarded to W. C. JUCKSCH, Little Rock, at approximately $100,000. Bonds for this purpose were recently voted. Noted Aug. 12.

✚Dallas, Tex.—The contract for paving Davis, Hines and Canty St. has been awarded to the STANDARD ENGINEERING CO., at $35,000.

✚Dallas, Tex.—The contract for paving Fitzhugh St. has been awarded to the TEXAS BITULITHIC CO., at $11,854.

McKinney, Tex.—A bond issue of $200,000 has been approved by the Attorney General. The proceeds will be used for the construction of roads in District No. 8.

Lawton, Okla.—(Official)—Bids will be asked in about 60 days by the Commissioners of Comanche County for the construction of county highways, estimated to cost $5000. S. A. Joyner is County Engr.

Salt Lake City, Utah—(Official)—Bids will be received until 10 a.m., Sept. 15, by Karl A. Scheil, City Recdr., for paving 13th East St. from 11th South St. to Westminster Ave.

✚Tacoma, Wash.—The contract for paving South O. St. from Sixth Ave. to South 11th St. has been awarded to the McHUGH CONSTRUCTION CO., Tacoma, at $9989.

Tacoma, Wash.—Bids will be received until Sept. 10 by Thomas N. Norris, County Audr., for improving Permanent Highway No. 7.

Walla Walla, Wash.—Press reports state that the City Commissioners have voted to pave Howard and Chestnut St. The estimated cost is $15,000.

Berkeley, Calif.—Press reports state that the City Council plans to improve a number of streets at an estimated cost of $100,000.

✚Compton, Calif.—The contract for paving Main St. and Compton Ave. to the city limits has been awarded to GEORGE B. CURTIS, Los Angeles.

✚Los Angeles, Calif.—The contract for improving Court St. from Alvador to Lake St. has been awarded to E. A. BAKER, at $4653.

Oakland, Calif.—(Official)—Bids will be received until 10 a.m., Sept. 7, by George E. Gross, Clk. of Bd. of Supvrs. of Alameda County, for grading and paving with bitulithic the county roads in Murray Rd. District, Murray Township.

San Francisco, Calif.—See item under "Sewers."

✚Dunnville, Ont.—The contract for paving Canal St., E., with tarvia has been awarded to McRAE & CAMPAIGNE, Niagara Falls, Ont., at $10,460.

†Port Coquitlam, B. C.—The contract for grading and paving Dewdney Trunk Rd. has been awarded to the COLUMBIA BITULITHIC CO., Port, Coquitlam, at $22,000.

INDUSTRIAL WORKS

†Allston, Mass.—Dwight Baldwin has awarded the contract for the construction of a one-story, 55x190-ft. public garage to NATHAN HURWITZ, 26 Wolcott St., Boston, Mass. John T. Spofford, 15 Beacon St., Boston, Mass., is Arch. The estimated cost is $25,000.

†Boston, Mass.—W. F. Smith has awarded the contract for the construction of a one- and two-story, 65x131-ft. building to McDONALD & KIVELL, 155 Milk St. The estimated cost is $40,000. Stebbings & Watkins, 164 Federal St., is Arch. Noted July 1.

†Lawrence, Mass.—(Official)—The Lenox Motor Car Co. will build a reinforced-concrete factory by day work. The estimated cost is $100,000. Gilman & Ames, 8 Congress St., Boston, Mass., is Arch. Noted Aug. 19.

†Springfield, Mass.—The Bausch Machine Tool Co. has awarded the contract for the construction of a 41x50-ft. addition to its plant to J. G. ROY. The estimated cost is $11,000.

†Worcester, Mass.—The Graton & Knight Mfg. Co., Franklin and Suffold St., has awarded the contract for the construction of a three-story, 67x200-ft., brick addition to its plant to F. W. MARKS, 4 Walnut St. The estimated cost is $50,000.

Worcester, Mass.—A. A. Ridyard, 7 Chandler St., plans the construction of a $60,000 garage.

†Providence, R. I.—The CRUISE & SMILEY CONSTRUCTION CO., Pawtucket, R. I., has been awarded the contract for the construction of a two-story garage for the Merchants' Cold-Storage & Warehouse Co., Inc., Kinsley Ave. The estimated cost is $25,000. Jenks & Ballou, Grovesnor Bldg., is Arch.

†Bridgeport, Conn.—The Remington Arms—Union Metallic Cartridge Co. has awarded the contract for the construction of three factories to the T. J. PARDY CONSTRUCTION CO. The estimated cost is $500,000.

†Bristol, Conn.—The contract for the construction of a 127x252-ft. addition to the factory of the New Departure Mfg. Co. has been awarded to LEVERING & GARRIQUES, 552 West 23rd St., New York, N. Y.

†Amsterdam, N. Y.—The Amsterdam Silk Mills has awarded the contract for the construction of a $10,000 addition to its plant to P. B. MACHOLD.

†Amsterdam, N. Y.—The contract has been awarded to JOHN J. TURNER & SONS for the construction of a two-story, 35x40-ft. garage for Harvey Chalmers. The estimated cost is $15,000.

†Auburn, N. Y.—The contract has been awarded to E. K. FENNO, Rosemblum Bldg., Syracuse, N. Y., for the construction of a two-story, 48x100-ft. plant for the Auburn Button Works. The estimated cost is $20,000. G. W. Thompson, Gurney Bldg., Syracuse, N. Y., is Engr.

Mt. Vernon, N. Y.—The Benford Mfg. Co. will build an addition to its plant to cost $15,000.

New York, N. Y.—(Borough of Brooklyn)—The Grand Union Tea Co., 68 Jay St., will build a ten-story, 51x100-ft. brick and steel factory at Jay and Front St., to cost $100,000.

†New York, N. Y.—(Borough of Manhattan)—STERRETT & GOSS, 103 Park Ave., has been awarded the contract for the construction of a five-story, 150x200-ft. factory for the Gryphon Rubber Co. Frank E. Newman, 1123 Broadway, is Arch.

New York, N. Y.—(Borough of Manhattan)—The Manhattan Refrigerating Co., 521 West St., plans the construction of a seven-story, 62x84-ft. cold-storage warehouse at 94-97 Gansevoort St., to cost $80,000.

Rochester, N. Y.—C. W. Brownyard, Mill St., will build a one-story, 100x100-ft. factory by day labor. The estimated cost is $20,000.

†Rome, N. Y.—The Rome Brass & Copper Co. has awarded the contract to PARRY & JONES for the construction of a one-story, 140x200-ft. brick and steel addition to its casting shop.

Syracuse, N. Y.—Bids are being received by Gaggin & Gaggin, Arch., University Bldg., for the construction of a one-story, 110x140-ft. foundry for the Syracuse Malleable Iron Works, 101 North Geddes St.

†Camden, N. J.—The contract has been awarded to the TURNER CONCRETE STEEL CO., 1713 Sansom St., Philadelphia, Penn., for the construction of a three-story, 96x100-ft. factory for E. & R. Preisendanz. J. C. Jefferis, 1001 Chestnut St., Philadelphia, Penn., is Arch. Noted July 8.

†Hackensack, N. J.—The STEWART CONSTRUCTION CO., 1705 University Ave., New York, N. Y., has been awarded the contract for the construction of a $5,000,000 plant for the American & British Mfg. Co., Bridgeport, Conn. Noted Aug. 19.

†Newark, N. J.—The contract has been awarded to the ESSEX CONSTRUCTION CO., 85 Academy St., for the construction of a one-story, 53x150-ft. chemical factory for the Consolidated Color Chemical Co., Lister Ave. The estimated cost is $15,000. Marshall N. Shoemaker, 9 Clinton St., is Arch.

†Plainfield, N. J.—TALLAMY BROS., 548 West Front St., has been awarded the contract for the construction of a three-story, 75x100-ft. warehouse for the Plainfield Storage Warehouse Co., W. Manning, 106 Depot Pl. The estimated cost is $30,000. Noted Aug. 5.

†Lancaster, Penn.—The National Biscuit Co., care F. G. Johns, 318 North Arch St., has awarded the contract for the construction of a one-story, 39x180-ft. storage building to C. F. & B. G. STAUFFER. The estimated cost is $10,000.

†Oil City, Penn.—(Official)—S. C. BOQUIN has been awarded the contract for the construction of a one-story, 38x150-ft. brick and reinforced-concrete carbarn with a 16x100-ft. wing for the Citizens Traction Co. Day & Zimmerman, 611 Chestnut St., Philadelphia, Penn., is Arch. Noted Apr. 8 and May 13.

Philadelphia, Penn.—Bids are being received by Spencer Roberts, Arch., 1524 Chestnut St., for the construction of a six-story, 39x68-ft. factory for Felton, Shibley & Co., 136 North Fourth St. The estimated cost is $50,000.

†Philadelphia, Penn.—WILLIAM STEELE & SONS CO., 1600 Arch St., has been awarded the contract for the construction of a one-story, 107x183-ft. factory for the National Umbrella Frame Co., 30th and Thompson St. The estimated cost is $36,000.

Philadelphia, Penn.—Bids are being received by F. P. Woll & Co., Church and Tacony St., for the construction of a one-story, 60x95-ft. factory to cost $25,000.

Philadelphia, Penn.—The contract will soon be awarded for the construction of a five- and six-story addition to the packing plant of J. J. Feiln & Co., 4142 Germantown Ave. The estimated cost is $90,000.

†Philadelphia, Penn.—(Official)—The contract for the construction of a one-story 142x165-ft. factory at Ninth and Bailey St. for the Wood Mfg. Co. has been awarded to FRANK TURNER, 828 Broadway, Camden, N. J. The estimated cost is $30,000.

Pittsburgh, Penn.—The Republic Electric & Mfg. Co., Jenkins Arcade Bldg., plans the construction of a four-story, 54x147-ft. factory to cost $200,000. H. Hornbostel, Pittsburgh Bank for Savings Bldg., is Arch.

Security, Md.—The Security Cement & Lime Co. will expend $100,000 for additions to its plant.

Fayetteville, Tenn.—(Official)—We are advised by J. E. Sirrine, Engr., Greenville, S. C., that work has been postponed indefinitely on the proposed mill for the Elk Cotton Mills. Noted Aug. 19.

Memphis, Tenn.—D. Canale & Co., Front and Huling St., will build a three-story warehouse to cost about $50,000. G. M. Shaw & Co., Tennessee Trust Bldg., is Arch.

†Akron, Ohio—The AKRON STORAGE & CONTRACTING CO., 215 South Broadway, has been awarded the contract for the remodeling of the one-story, 66x88-ft. laundry of Lawrence Halter, 669 South Main St. The estimated cost is $10,000.

†Akron, Ohio—The William Foundry & Machine Co., 62 Cherry St., has awarded the contract for the remodeling of its two-story, 92x125-ft. machine shop to the CARMICHAEL CONSTRUCTION CO., Hamilton Bldg. The estimated cost is $16,000.

Cleveland, Ohio—Bids are being received by W. J. Carter, Engr., 1423 Illuminating Bldg., for the construction of a two- three- and four-story, 100x120-ft. addition to the factory of the Van Dorn & Dutton Co., F. W. Sinram, Secy., 2714 East 79th St.

Cleveland, Ohio—J. H. Donahey, Hillside Ave., East Cleveland, plans the construction of a three-story, 54x189-ft. factory at 2002 Euclid Ave. The estimated cost is $50,000.

Cleveland, Ohio—The Perfection Spring Co., will build an addition to its plant at 6501 Central Ave., to cost $15,000.

Cleveland, Ohio—The West Ninth Street Terminal Warehouse Co. will build terminals on West Ninth St. A. A. Mudge, Home Financing Co., Williamson Bldg., is interested. Estimated cost, $2,000,000.

†Steubenville, Ohio—The La Belle Iron Works has awarded the contract for the construction of a $2,000,000 by-product coking plant to the KOPPERS CO., Pittsburgh, Penn. The plant will consist of 96 ovens.

†Toledo, Ohio—SPEAR, MOYLAN & LASLEY has been awarded the contract for the construction of a one-story, 107x145-ft. dry kiln for the Willys Overland Co., Central Ave. The estimated cost is $30,000. Mills, Rhines, Bellman & Nordhoff, 1234 Ohio Bldg., is Arch.

†Toledo, Ohio—(Official)—The Castleton Co. has awarded the contract for the concrete pile foundation for its proposed building at St. Clair and Adams St., to the MacARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y. Mills, Rhines, Bellman & Nordorff, Ohio Bldg., Toledo, Ohio, is Arch.

Evansville, Ind.—C. Shopbell & Co., Arch., 707 Furniture Exchange Bldg., has prepared plans for the construction of a five-story 48x150-ft. factory for the Anchor Supply Co., Water and Vine St. Louis Dana is Pres.

†Detroit, Mich.—The Metal Products Co. has awarded the contract for the construction of a four-story, 60x100-ft. factory to FULLER & CO., 320 Penobscot Bldg. Nettleton & Weaver, 1405 Penobscot Bldg., is Arch.

†Detroit, Mich.—The contract for the construction of a two-story, 131x152-ft. warehouse for A. Y. Malcomson, 116 La Salle Ave., has been awarded to A. A. ALBRECHT & CO., Penobscot Bldg. Malcomson & Higginbotham, 404 Moffat Bldg., is Arch.

†Chicago, Ill.—O. W. ROSENTHAL & CO., 80 East Jackson Blvd., has been awarded the contract for the construction of a six-story, 108x120-ft. printing plant for the Regensteiner Colortype Co., 1201 West Jackson Blvd. A. S. Alschuler, 28 East Jackson Blvd., is Arch. Noted Aug. 19.

†Madison, Wis.—The Gisholt Machine Co. has awarded the contract to the WORDEN-ALLEN CO., Milwaukee, Wis., for the construction of two steel and brick buildings.

†Des Moines, Iowa—The contract for the construction of a five-story, 100x250-ft. brick publishing building at 20th and Grand Ave. for J. H. Pierce has been awarded to the WERTZ CONSTRUCTION CO., 711 Mulberry St. The estimated cost is $250,000.

Wichita, Kan.—The Wichita Creamery Co., 202 North Handley Ave., will soon award the contract for the construction of a three-story, 50x120-ft. reinforced-concrete and brick creamery to cost $20,000. G. E. Moser, Chicago, Ill., is Arch. B. F. Copley is Pres.

Scottsbluff, Neb.—It is reported that the Scottsbluff Creamery Co. plans the construction of a $15,000 plant.

✚Independence, Mo.—The contract has been awarded to WILLIAM CRICK, 1601 West Short St., for the construction of a two-story 50x165-ft. reinforced-concrete garage at 314-16 West Lexington Ave. for Smith Bros., 214 West Maple St., at $10,000.

Argenta, Ark.—The Arkansas Fertilizer Co., will build a sulphuric acid plant, to cost $90,000.

Wiley, Colo.—The Denver Alfalfa Milling Co. plans the construction of a mill to cost $50,000.

✚Portland, Ore.—The Dock Commission has awarded the contract for the construction of a 176x330-ft. reinforced-concrete warehouse to the BRAYTON ENGINEERING CO., at $86,990. Other bids were: Anton Teller, $88,684; J. M. Ambrose, $106,895; Parker & Banfield, $100,884; Freiburg, McLennan Co., $102,837; Palmer, Ellis & Co., $87,133; Portland Bridge & Building Co., $91,434; Beers Building Co., $87,474; John Almeter, $94,215; Boyajohn-Arnold Co., $93,829.

✚Regina, Sask.—(Official)—The Robert Simpson Co., Queen and Yonge St., Toronto, Ont., has awarded the contract for the construction of a $150,000 warehouse to the WELLS BROS. CO., 53 West Jackson Blvd., Chicago, Ill. Noted Aug. 12 and 19.

FEDERAL GOVERNMENT WORK

Alterations—Boston, Mass.—Bids will be received until 3 p.m., Sept. 14, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for alterations, and partitions at the U. S. Custom House, Boston.

Building—Boston, Mass.—Bids will be received until 3 p.m., Oct. 8, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the U. S. appraisers' stores at Boston.

✚Buildings—Ft. Mifflin, Penn.—The contract has been awarded to CHARLES GILPIN, Philadelphia, at $60,000, for constructing four magazine buildings at Ft. Mifflin. Noted Aug. 26.

Custom House—Wilmington, Del.—Bids will be received Oct. 9, according to press reports, for the construction of the U. S. custom house at Wilmington.

Building—Indian Head, Md.—Bids were received Aug. 28, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of one steel frame cotton storehouse covered with corrugated iron, concrete floor and foundation from: John H. Nolan Construction Co., Washington, D. C., $4353 and Penn Bridge Co., Washington, D. C., $4320. Noted Aug. 5.

Desks—Washington, D. C.—Bids will be received until 3 p.m., Sept. 15, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for furnishing bronze and wood desks.

Power Plant—Washington, D. C.—Bids will be received until Nov. 17 by the Treasury Department, Washington, for constructing and equipping a power plant at the foot of 14th St. The appropriation is $1,494,104.

★Retaining Wall—Washington, D. C.—Bids will be received until 2 p.m., Sept. 20, by the Commissioner of Public Buildings and Grounds, Washington, for constructing a retaining wall along the west side of Meridian Hill Park.

★Steel Derrick Boat—Washington, D. C.—Bids were received Aug. 23 by the U. S. Engineer for furnishing a steel derrick boat as follows: Spedden Shipbuilding Co., Baltimore, Md., $43,770; Ellicott Machine Corporation, Baltimore, Md., $34,742; Dravo Contracting Co., Pittsburgh, Penn., $23,750 and Valk & Murdock. Noted July 20.

Vessel—Washington, D. C.—Bids were received Aug. 25, by the Coast and Geodetic Survey, Dept. of Commerce, Washington, D. C., for the construction of a survey vessel for the Survey as follows: Spedden Shipbuilding Co., Baltimore, Md., $266,700; Ellicott Machine Corporation, Baltimore, Md., $224,800; Anderson Steamboat Co., Seattle, Wash., $211,790; Pusey & Jones, Wilmington, Del., $242,472; Manitowoc Shipbuilding and Dry Dock Co., Manitowoc, Wis., $189,000 and Seattle Construction & Dry Dock Co., Seattle, Wash., $210,000. Estimates were also submitted by four United States Navy Yards but these do not provide for bond or for liquidated damages: Philadelphia, Penn., $244,245; Portsmouth, N. H., $163,250; Puget Sound, Wash., $229,784 and Norfolk, Va., $220,000. Bids were opened at the same hour at San Francisco.

✚Post Office—Wellsburg, W. Va.—The contract has been awarded to the COLONIAL CONSTRUCTION & SUPPLY CO., Charlottesville, Va., at $41,500, for constructing the post office. Noted Aug. 19.

Buildings—Port Royal, S. C.—Bids were received Aug. 28 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a guardhouse, six double quarters for noncommissioned and petty officers, brick wall for command barracks, garbage incinerator and nine sleeping porches at the Naval Disciplinary Barracks, Port Royal: A. S. Bacon & Sons, 2 Bay St., E., Savannah, Ga. $41,075; Simons-Mayrant Co., Peoples Office Bldg., Charleston, S. C., $44,287; Algernon Blair, 11 South Lawrence St., Montgomery, Ale., $38,685; Newport Contracting & Engineering Co., Newport News, Va., $34,676; Cox & Doke, 303 34th St., Savannah, Ga., $35,151; N. Christenson & Son, Beaufort, $66,666; R. W. Wimbish, 1106 Bull St., Savannah, Ga., $43,515 and Henry Monk, 314 West Belmont St., Pensacola, Fla., $49,040. Noted Aug. 5.

★Barges—Vicksburg, Miss.—The bid of the American Bridge Co., Pittsburgh, Penn., at $7500 per barge for furnishing six steel barges has been recommended for acceptance. Noted July 22.

★Miscellaneous Work—Marblehead, Ohio—Bids will be received until 2 p.m., Sept. 21, by the U. S. Coast Guard, Treasury Dept., Washington, D. C., for constructing a boathouse, crew's quarters and launchway, moving present building and removing old launchway at the Marblehead Coast Guard Station.

Lumber—Detroit, Mich.—Bids will be received until [illegible] p.m., Sept. 9, by the Lighthouse Inspector, Detroit, for furnishing about 75,000 ft. of hardwood timber for Charity Island Lighthouse Reserve.

✚★Dredging—Chicago, Ill.—The contract has been awarded to the FITZ SIMONS & CONNELL DREDGE & DOCK CO., Chicago, at $31,651 for dredging in Calumet River. Noted July 29.

Pipe—Newell, S. D.—Bids will be received until 4 p.m., Sept. 16, by the U. S. Reclamation Service, Newell, for constructing approximately 3285 ft. of 60-in. and 450 ft. of 24-in. continuous wood stave pipe for the Belle Fourche Project.

★Canal Work—St. Ignatius, Mont.—Bids were received Aug. 18 for constructing (a) laterals and (b) sublaterals as follows: Two Miracle Concrete Corporation, Kalispell, (a) and (b) $33,389; Wilson Bros., Polson, (a) $10,945; Percy M. Ross, Polson, (a) part, $4168 and J. E. Hilton, Billings, (a) and (b) $30,254. Noted July 22.

✚Post Office—Cuero, Tex.—The contract for the construction of a post office at Cuero has been awarded to RICHARDSON ENGINEERING & CONSTRUCTION CO., Bainbridge, Ga., at $53,470. Noted May 13 and July 1.

Buildings—Isabel, Tex.—Bids were received Aug. 28, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of power house and one operator's quarters at the Naval Radio Station, Isabel, as follows: C. O. Eure, Hattiesburg, Miss., $12,561; Newport Contracting and Engineering Co., Newport News, Va., $14,200; James McCoy, Brownsville, $9500. Noted July 22.

Mechanical Equipment—Tulsa, Okla.—Bids will be received until 3 p.m., Sept. 30, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for installing mechanical equipment, except lighting fixtures, at the U. S. post office.

★Post Office—Grand Junction, Colo.—Bids were received Aug. 24, by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Grand Junction, (a) limestone, (b) sandstone: George W. Stiles Construction Co., Chicago, Ill., (a) $112,294; George A. Whitmeyer Co., Ogden, Utah, (a) $108,006; William O'Neill & Son Co., Faribault, Minn., (a) $112,819; Norman Ker, New York, N. Y., (a) $121,000, (b) $128,000; King Lumber Co., Charlottesville, Va., (a) $96,140, (b) $100,000; Campbell Building Co., Salt Lake City, Utah, (a) $107,500, (b) $112,569; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $100,821; J. H. Wiese, Omaha, Neb., (a) $109,723; M. Yeager & Sons, Danville, Ill., (a) $108,943, (b) $112,943. Noted July 22.

Cylinder Gates—Elephant Butte, N. M.—We have been advised that bids will not be opened on Sept. 2 for furnishing cylinder gates for spillway at the Elephant Butte Dam. The work will be readvertised. Noted Aug. 19.

✚Dredging—Bremerton, Wash.—The contract for dredging about 20,000 cu.yd. of material at the Puget Sound Navy Yard has been awarded to ERICKSON CONSTRUCTION CO., Seattle, at 60c. per yd. Noted Aug. 19.

Stable—Bremerton, Wash.—Bids will be received until 11 a.m., Sept. 25, by William M. Smith, Act. Ch. of Bureau, Bureau of Yards and Docks, Washington, D. C., for constructing a stable at the Puget Sound Navy Yard.

Engines—Portland, Ore.—Bids will be received until 2 p.m., Sept. 20, by the Lighthouse Inspector, Portland, for furnishing oil engines and compressors for Slip Point Station.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Sept. 10, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

Elevators—Pearl Harbor, Hawaii—Bids were received Aug. 28 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the installation of three hydropneumatic freight elevators at the Naval Station, Pearl Harbor, Hawaii: Otis Elevator Co., Washington, D. C., $8484; A. Kieckhefer Elevator Co., Milwaukee, Wis., $8600. Noted Aug. 12.

MISCELLANEOUS

Retaining Wall—Quincy, Mass.—The Fore River Shipbuilding Co. will build a sea wall 1200 ft. long and 40 ft. high.

✚Barge Canal Work—Albany, N. Y.—The contract for the construction of the terminal dock, under Contract 46, at Weedsport, has been awarded to SCOTT BROS., Rome, N. Y., at $13,658. Noted Aug. 26.

Barge Canal Work—Albany, N. Y.—(Official)—Bids will be received until Sept. 9 by W. W. Witherspoon, Capitol, Albany, for improving Three Mile Harbor in Suffolk County and the dredging of Sawyer Creek. Bids will be also opened at the same time for furnishing and delivering about 2,000,000 ft. of timber and plank.

Retaining Wall—Buffalo, N. Y.—The Mayor has signed a resolution authorizing a bond issue of $50,000 for the construction of a retaining wall at the foot of Ferry St.

Swimming Pool—Buffalo, N. Y.—The city plans to construct a swimming pool at the municipal water-works plant. The estimated cost is $10,000.

✚Jetty—Atlantic City, N. J.—The contract for lengthening the jetty at the foot of Tennessee Ave. has been awarded to the ATLANTIC CITY CONSTRUCTION & SUPPLY CO., at $13,427. Noted Aug. 26.

★Hardware—Newark, N. Y.—(Official)—Bids will be received by Mrs. Sarah F. S. Armstrong, Pres., Board of Trustees, New York State Custodial Asylum for Feeble Minded Women, until noon, Sept. 15, for furnishing hardware for the cottage and hospital building.

Jetties and Bulkhead—New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received by Cabot Ward, Dept. of Parks, Municipal Bldg., Manhattan, until 3 p.m., Sept. 9, for the construction of timber jetties and bulkhead, also extending existing jetties to new penetration on the beach at Seaside Park, Rockaway.

Retaining Wall and Fencing—Aspinwall, Penn.—Bids will be received by S. R. Chase, Clk., 230 First St., until 7:30 p.m., Sept. 6, for the construction of a concrete retaining wall, and 250 lin.ft. of iron-pipe fencing. Specifications may be obtained of A. G. Shaw, 808 Magee Bldg., Pittsburgh, Penn., Engr.

Coal Pocket—Philadelphia, Penn.—The Koelle, Speth & Co., will erect a 34x124-ft. coal pocket on Water St., to cost $8000.

★✚**Subway**—Philadelphia, Penn.—(Official)—The contract for constructing the subway and station, under Filbert St., City Hall and South Penn Sq., has been awarded to the KEYSTONE STATE CONSTRUCTION CO., Penn Bldg., at $1,700,000 (lump sum bid). Noted Aug. 26.

✚**Subway**—Philadelphia, Penn.—(Official)—The contract for constructing foundations in Front St., Kensington and Frankford Ave. from Callowhill St. to Unity St. has been awarded to JAMES D. DORNEY, 1204 East Montgomery Ave., at $142,590 (lump sum bid). Noted Aug. 26.

✚**Levee**—Greenville, Miss.—The Board of Mississippi Levee Commissioners awarded contracts for the construction of levees as follows: Mayersville to Baleshed enlargement, 262,000 cu.yd. to R. T. CLARK & CO., at $44,671; Upper & Lower Avon banquette to BURT, BOND & McMURRAY, at $6020; Moon Lake enlargement, 200,000 cu.yd. to R. T. CLARK & CO., at $34,100; Upper Vermillion Spur enlargement to R. T. CLARK & CO., at $5000; new Shiloh levee, 200,000 cu.yd., to W. T. & E. M. LAWRENCE & CO., at $29,780. Noted Aug. 12.

Wharf—New Orleans, Miss.—Plans have been prepared for the construction of a wharf between First St. and Sixth St. The estimated cost is $69,000. Bids will be advertised for as soon as plans are approved by Board of Port Commissioners.

✚**Levees**—New Orleans, La.—The State Board of Engineers awarded the contract for the enlargement of Hermitage Levee, Parish of Iberville, to the HAMERON WHITE CO., LTD., at 19.9c. per cu.yd. The total cost amounted to about $29,850.

✚**Drainage**—Selmer, Tenn.—The Directors of Cypress Creek Drainage District have awarded the contract for the construction of a canal 8.4 miles long to the SWAMP DREDGE CO., Tupelo, Miss., at 8¼c. per cu.yd. Noted Aug. 5.

Retaining Wall—Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, Room 511, City Hall, until noon, Sept. 8, for the construction of a retaining wall in Rockefeller Park. Specifications may be obtained of the Park Engineer, 318 City Hall.

✚**Breakwater**—Conneaut, Ohio—The contract for the construction of a pier head and rubble mound breakwater at Conneaut Harbor has been awarded to the COAST & LAKES CONTRACTING CORPORATION, Cleveland, at $99,007.

✚**Ditch**—Richmond, Ind.—The contract for the construction of the Nettle Creek Ditch has been awarded to HORTON & MOSELEY, Marquette Bldg., Chicago, Ill., at $11,390. Other bidders were: Henry P. Johnson, Sterling, Ill., $12,330; Clyde A. Walb, La Grange, $12,708; Marbaugh Bros., Monterey, $12,360; T. F. Foohey Dredging Co., Fort Wayne, $2360. Noted July 29.

✚**Drainage**—Fairbury, Ill.—According to press reports, the contract for constructing a drainage ditch for Momence and Yellow Head Drainage District has been awarded to H. & J. A. McWILLIAMS, Chicago. The estimated cost is $38,000.

Drainage—Jefferson, Iowa—The contract for furnishing tile, to be used in drainage work, has been awarded to the JEFFERSON CEMENT PRODUCTS CO., Jefferson, Iowa, at $58,555. Other bidders were: McHose Co., Boone, Iowa, $61,289; Cement Products Co., Salt Lake City, Iowa, $62,077; Lehigh Clay Products Co., $63,475. S. G. Nelson is Engr.

Drainage—Mount Aye, Iowa.—The Ringold County Board of Supervisors, according to press reports, plan to drain 7952 acres along Platte River.

Ditch—Breckenridge, Minn.—Bids will be received by P. E. Truax, County Audr., until Sept. 14, for constructing ditch No. 6 at an estimated cost of $12,364.

✚**Ditch**—Montevideo, Minn.—Contracts have been awarded for the construction of County Ditch No. 18 to P. HALSEY, Willmar, at $5494 for open work and to the MAYNARD TILE, STONE & CEMENT CO., Maynard, at $19,494 for tile work. Noted Aug. 12.

Ditch—Redwood Falls, Minn.—Bids were received Aug. 12, for the construction of County Ditch No. 20 as follows: James Girding, Fox Lake, $36,957; Kircher Bros., St. Paul, $37,300; Parish & Sedgley, Worthington, $37,525. L. P. Larson is County Audr.

Drainage—Wichita, Kan.—J. J. Jones and A. E. Munich, Wichita are forming a company for the purpose of draining the Big Slough west and south of Wichita. The cost of the work is estimated at $25,000.

✚**Drainage**—Tekamah, Neb.—The contract for the construction of about 1,000,000 cu.yd. of ditches in the Burt-Washington Drainage District has been awarded to W. E. CALLAHAN CO., at 6.45c. per cu.yd., and EDWARD PETERSEN CO., at 6.48c. per cu.yd. Other bidders were: Stevens & Long, 8.2c.; Pollard, Campbell & Crane, 7.5c.; Phalen & Shirley, 6.7c.; I. C. D. Campbell, 7.73c.; R. S. Morrow, Boyce & Briggs, 7.5c.; J. H. Flick, 7.2c.; Munn Riese Co., 7.5c. Noted July 29.

Drainage—Poplar Bluff, Mo.—Surveys are being made and bids will soon be called for the construction of drainage ditches in Ripley County. John H. Gleason is Engr.

Dock—St. Louis, Mo.—The Mayor's Commission has voted to recommend an appropriation of $250,000, for the construction of a dock.

✚**Drainage**—Marion, Ark.—Press reports state that the contract for the construction of 5,022,000 cu.ft. of ditches has been awarded by the Commissioners of Drainage District No. 2 of Crittenden County to McWILLIAM BROS., at 7.59c. per cu.yd.

✚**Drainage**—Pine Bluff, Ark.—According to press reports, the contract for drawing about 40,000 acres of land in the Waterloo Drainage District, has been awarded to STEANBERG BROS., Pine Bluff. The work is estimated to cost $235,000.

Drainage—Alief, Tex.—Bids will be received until 10 a.m., Sept. 10, by H. L. Washburn, County Audr, Houston, for the construction of drainage ditches; also for cleaning present ditches.

Drainage—Bay City, Tex.—It is reported that the County Commissioners have engaged E. N. Gustafson, Engr., for making surveys for draining about 10,000 acres in Drainage District No. 6.

✚**Dredging**—Galveston, Tex.—Press reports state that the contract for dredging, bulkheading and grading preparatory to the construction of the $50,000 dry dock on Pelican Island, has been awarded to JOHN JACOBSON, Texas City.

Drainage—Crook, Colo.—The city contemplates the construction of a drainage system to reclaim about 3600 acres of land.

Drainage—Las Animas, Colo.—It is reported that about 14 miles of drainage ditches will be constructed near here for the Mutual Carey Irrigating Co.

Ditch—Phœnix, Ariz.—J. B. Girand, City Engr. has completed plans for removing town ditch which requires carrying ditch under Van Buren St. from Seventh St. to Seventh Ave., 5400 ft.; three different types of construction are called for in the plans. A concrete conduit, 7 ft. diam., covered 4 ft.; an ingot iron conduit and a wood stave conduit.

Canal Work—Selah, Wash.—It is reported that the Directors of the Selah Canal Co. have ordered an assessment of $30,000 to construct steel flumes, ditches, etc.

Elimination of Grade Crossing—Portland, Ore.—The Oregon, Washington R.R. & Navigation Co. plans to eliminate the grade crossing from Sullivans Gulch to the city limits. The estimated cost is $750,000.

Steamer—Portland, Ore.—Plans are being prepared for the construction of a 120-ft. steamer for Captain Smith, S. S. "Sacajawea," Portland, Ore. The estimated cost is $20,000.

★**Bulkhead Shed**—San Juan, Porto Rico—(Official)—Bids will be received by Manuel V. Momenech, Chn., San Juan Harbor Board, until 11 a.m., Oct. 1, for the construction of a bulkhead shed.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

✚**Holyoke, Mass.**—The contract for the construction of a two-story, 120x125-ft. high school has been awarded to the CASPER RANGER CONSTRUCTION CO., at $73,816.

Bridgeport, Conn.—The Sons of St. George plan the construction of a three-story, 60x133-ft., brick home on Stratford Ave. The estimated cost is $40,000. Ernest G. Southey, 983 Broad St., is Arch.

Albany, N. Y.—Albany Chapter No. 12 of the Eastern Star plans the construction of a three-story chapter house at Lark St. and Hudson Ave., to cost $40,000. James S. Shattuck is Arch.

New York, N. Y.—(Borough of Brooklyn)—Plans are being prepared by N. Serracino, 1170 Broadway, New York, N. Y. (Borough of Manhattan), for the construction of a hotel for the Brighton Beach Development Co. at Brighton Beach. Noted July 29.

✚**Little Falls, N. Y.**—(Official)—The contract for the construction of a four-story bank and office building for the National Herkimer County Bank has been awarded to WELLS BROS. CO., 366 Fifth Ave., New York, N. Y., at $115,000. Noted July 15.

New York, N. Y.—(Borough of Brooklyn)—Plans have been prepared by W. T. McCarthy, Arch., 16 Court St., for the construction of two four-story apartment buildings on Ave. C and East Fourth St., for the De Haven Building Corporation. The estimated cost is $90,000.

New York, N. Y.—(Borough of Manhattan)—Edmund K. Stallo and daughters plans the construction of a 31-story hotel on 42d St., between Broadway and Seventh Ave.

Rochester, N. Y.—Plans are being prepared by Foster & Gade, 15 West 38th St., New York, N. Y., for the construction of a building for the Rochester Chamber of Commerce. The estimated cost is $200,000.

Rochester, N. Y.—Bids will be received for the construction of a Y. M. C. A. building at Lake and Driving Park Ave. The estimated cost is $50,000. James G. Cutler is Chn. of Building Com. and Claude Bragdon is Arch. Noted June 24 and July 29.

Schenectady, N. Y.—The Masonic Hall Association has purchased the site at 828-830 State St., and will build a $100,000 temple.

✚**Syracuse, N. Y.**—The contract for the construction of the Masonic Temple on Montgomery St. has been awarded to FREDERICK A. CASWELL, Watertown, N. Y., at $97,000.

✚**Syracuse, N. Y.**—(Official)—The contract for the construction of the Delanare School has been awarded to the KING LUMBER CO., Charlotte, Va., at $221,122. Noted Aug. 12.

Asbury Park, N. J.—Plans are being prepared for the construction of a hotel for J. A. Havercamp.

✚**Atlantic City, N. J.**—The contract for the construction of a six-story, 112x176-ft., reinforced-concrete addition to the Hotel Rudolph, New Jersey Ave. and the Boardwalk, has been awarded to ALEXANDER CHAMBLAY, 243 North Tenth St., Philadelphia, Penn. E. M. Henderer and V. B. Smith are Archs.

Atlantic City, N. J.—Bids will be received Sept. 8 for the construction of a three-story, brick school. Stout & Riebenack is Arch.

Hopewell, N. J.—Revised plans are being considered by the Board of Education for the construction of an addition to the township high school.

Jersey City, N. J.—Bids will be received until 3 p.m., Sept. 9, by the Board of Chosen Freeholders of Hudson County for the construction of a county jail. Walter O'Mara is Clk.

Passaic, N. J.—The Passaic General Hospital plans to construct a new sanitarium. The estimated cost is $300,000

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section Nos. 1 and 2—Route Nos. 16 and 18

Bids were received Aug. 18 by the Public Service Commission for the station finish work for parts of the Seventh Ave., Lexington Ave. and White Plains Rd. Transit R.R., Section Nos. 1 and 2, Route Nos. 16 and 18 from: (A) Altoria Realty & Construction Co., 3 East 44th St., (B) Snare & Triest Co., 233 Broadway, (C) Station Construction Co., 407 44[illegible] St., Brooklyn, (D) Marble Arch Co., 216th St. and Broadway, (E) William H. Egan, 147 East 25th St., (F) Connors Bros. Co., 644 West 88th St., (G) Post & McCord, 101 Park Ave. The item bids were as follows:

	A	B	C	D	E	F	G
6000 lin.ft. stairways—wood, street to mezzanine	$1.00	$1.00	$0.85	$0.90	$1.25	$0.90	$1.03
10,800 lin.ft. stairways—wood, mezzanine to platform	1.00	1.00	.86	.90	1.25	.85	1.03
8000 lin.ft. stairways—iron, mezzanine to platform	2.624	2.80	2.18	1.90	2.85	2.60	2.21
2000 sq.ft. stair landings—wood, straight (street to mezzanine)	1.08	1.00	.85	.90	1.05	1.10	1.14
1400 sq.ft. stair landings—offset (street to mezzanine)	1.08	1.10	.85	.90	1.05	1.20	1.14
1900 sq.ft. stair landings—offset (mezzanine to platform)	1.13	1.10	.90	.90	1.15	1.20	1.19
2050 sq.ft. straight or offset with steel checkered platform	2.25	2.00	1.78	1.90	2.15	2.35	2.21
950 lin.ft. concrete stairways, self supporting stairways	2.00	1.10	.96	3.00	1.25	1.60	2.00
900 sq.ft. concrete stairways, self supporting stairway landings	.80	.80	.50	.50	.40	.40	.60
50 cu.yd. concrete stairways, concrete walls under street, Section 295	6.00	16.00	18.00	10.00	15.00	13.00	19.00
50 ton steel columns hangers, etc., supporting stairways	88.00	80.00	83.00	70.00	90.00	80.00	80.00
2400 sq.ft. concrete street landings	.50	.90	.75	.40	.90	.70	.30
70 cu.yd. concrete foundations for columns	10.00	16.00	8.00	6.00	15.00	11.00	9.00
30 concrete or brick manholes	36.00	55.00	25.00	150.00	50.00	45.00	53.00
10 cu.yd. rock excavations	10.00	10.00	10.00	5.00	15.00	5.00	9.00
10,600 lin.ft. oak handrails	.48	.55	.40	1.00	.55	.46	.49
11,500 sq.ft. canopies over stairways (street to mezzanine)	.65	.70	.70	.80	.68	.75	.83
48 canopies over street landings	70.00	75.00	175.00	50.00	75.00	125.00	55.00
193,000 sq.ft. canopies over side train platforms	.40	.37	.41	.40	.36	.47	.48
56,000 sq.ft. canopies over island train platforms	.40	.35	.40	.30	.34	.47	.44
15,500 sq.ft. canopies, special over side train platforms (concrete stations)	.42	.40	.44	.90	.38	.48	.44
3900lin.ft. type "A" railings—stairs, street to mezzanine	3.00	4.00	3.91	4.00	3.70	3.40	3.87
3500 sq.ft. type "B" grille railings on stairs	1.00	1.00	1.30	1.10	1.10	1.15	1.59
200 lin.ft. type "C" railing	3.00	4.00	2.91	4.00	3.50	3.57	2.87
350 lin.ft. type "D" railing	3.00	4.00	3.01	4.00	5.00	3.30	2.97
3200 lin.ft. "E" railing around stair wells	3.57	4.40	4.51	4.00	4.70	3.57	4.47
1000 lin.ft. "F" low level railings	3.57	5.00	3.41	4.00	5.00	5.60	3.37
3300 sq.ft. "G" high railings	.75	.90	.84	1.00	1.20	.60	.84
8800 lin.ft. "K" train platform railings	3.57	4.00	4.51	3.50	4.00	3.57	4.47
10 additional high posts 2½ in. tubing	8.50	13.00	9.05	20.00	9.00	9.00	9.00
350 lin.ft. pipe railings	1.10	1.10	1.03	2.00	2.00	1.30	1.16
40 metal screens for stave recesses	10.00	12.00	12.00	15.00	10.00	10.00	13.00
800 lin.ft. type "L" bevel railings	3.05	3.75	3.41	3.00	3.40	3.25	3.37
100 lin.ft. type "M" service railings	3.57	5.00	4.00	5.00	5.00	4.75	3.91
350 lin.ft. type "O" railings newel posts on stairways	3.25	4.40	4.16	5.00	4.00	3.50	4.12
200 lin.ft. type "P" railings newel posts on stairways	3.25	4.40	3.96	5.00	4.00	3.50	3.92
3 grilles at Bedford Park boulevard station	10.00	25.00	50.00	20.00	15.00	25.00	22.50
15,000 lin.ft. wind screen drop sash train platform	4.92	4.90	5.10	4.50	8.50	5.20	6.00
500 standards on railings on train platforms	15.00	16.00	23.20	18.00	20.00	27.00	15.10
75 free standing standards on island platform	23.00	30.00	28.30	22.00	32.00	42.00	32.16
315,000 sq.ft. wood floor for train platform	.20	.22	.20	.22	.59	.22	.22
18,300 sq.ft. 8-in. concrete slab floor, including water proofing, etc.	.58	.60	.65	.70	.60	.57	.71
14,600 sq.ft. 11½-in. concrete slab floor, including water proofing	.68	.70	.75	.75	.80	.72	.83
100 cu.yd. concrete encasing columns, beams and girders	1.00	1.00	.70	1.00	1.00	1.25	.60
200 cu.yd. concrete copings	.95	.80	.55	1.50	1.00	1.00	.90
200 sq.ft. additional cement finish, section 148	.15	.25	.15	.30	.20	.10	.16
1600 lin.ft. platform edge construction supported on steel angles	.79	.90	1.72	.50	.80	1.60	.80
2000 lin.ft. platform edge construction supported on wood facia	.20	.80	1.62	.50	.80	.60	.80
5000 sq.ft. water proofing protective concrete wood, etc., existing concrete slab	.41	.28	.22	.40	.40	.30	.40
53,000 sq.ft. asphalt floor, including wood floor	.30	.30	.23	.50	.40	.30	.42
100 sq.ft. 8-in. concrete slab 3-in. finish	.60	.60	1.00	1.00	.60	.50	.57
8600 sq.ft. 6-in. concrete slab, 3-in. finish	.45	.50	.50	.50	.50	.45	.54
100 sq.ft. 11½-in. concrete slab, 3-in. finish	.70	.70	1.00	.60	.80	.65	.72
6500 sq.ft. cement wainscot or base	.17	.22	.12	.20	20	.18	.20
36,500 sq.ft. concrete track floor over mezzanine, including water proofing rods, etc.	.45	.46	.55	.52	.45	.55	.71
1200 sq.ft. flooring for passageways	.30	.25	.20	.50	.30	.23	.40
620 ferrules for mezzanine roof, including flanges	1.80	2.50	2.38	2.00	2.50	2.20	3.00
30 trap doors or scuttles	2.00	20.00	10.00	3.00	25.00	60.00	20.00
54,000 sq.ft. 3-in. cement floor finish	.12	.12	.13½	.15	12	.12	.15½

Wildwood, N. J.—Bids will be received until Sept. 14 for the construction of a three-story, brick school. Clyde S. Adams is Arch.

Allentown, Penn.—The contract will soon be awarded for the construction of a six-story brick and stone Y. M. C. A. building, estimated to cost $100,000. Louis E. Jallade, 37 Liberty St., New York, N. Y., is Arch.

✚**Freehold, Penn.**—The contract for the construction of a church for the St. Johns Slovak Congregation has been awarded to ANDREW BRESLIN, Summit Hill, at $50,000.

Mount Union, Penn.—The contract will soon be awarded by George W. Morgan, Borough Secy., for the construction of a 2½-story, brick and concrete municipal building on Market St. D. W. Dillman, 47-49 Altoona Trust Bldg., Altoona, Penn., is Engr.

✚**Natrona, Penn.**—GEORGE SCHENK & CO., Butler, Penn., has been awarded the contract for the construction of a school for Harrison Township. Noted Apr. 22 and June 17.

✚**Philadelphia, Penn.**—CRAMP & CO., Denckla Bldg., has been awarded the contract for the construction of a 13-story, 48x230-ft. office building at 1416 Chestnut St., for the Franklin National Bank. The estimated cost is $600,000.

Washington, Penn.—Bids will be received until 9 a.m., Sept. 6, by Adjutant General Thomas J. Stewart, Harrisburg, for the construction of an armory on West Malden St.

✚**Guilford, Md.**—WALTER E. BURNHAM, Baltimore, Md., has been awarded the contract for the construction of a school, at $51,337. Smith & May is Arch.

Madison, W. Va.—Bids have been received for the construction of a courthouse as follows: George F. Gates, Charleston, $190,000; Acme Construction Co., $120,990; P. Q. Shrake & Son, $96,200; Dayton & Francis, $128,450; King Lumber Co., $118,400; J. L. Crouse, $126,159; Longest & Tessier Co., $120,000; Tyree & Thomas, $137,393; Peter C. Minnotti, Logan, $99,875. Noted Aug. 19.

✚**Louisville, Ky.**—The contract for the construction of a five-story office building has been awarded to the SELDENBRECK CONSTRUCTION CO., St. Louis, Mo. The estimated cost is $100,000. Noted Aug. 19 and 26.

Cincinnati, Ohio—Plans have been prepared by Elzner & Anderson, Arch., for the construction of a 12-story Y. M. C. A. building. The estimated cost is $405,000.

Cleveland, Ohio—The First Church of Christ contemplates the construction of a church at Euclid Ave. and East 111th St. The estimated cost is $125,000.

Cleveland, Ohio—Bids will soon be received for the construction of a three-story building at Euclid Ave. and East 30th St. for the Adams-Oakland Co. The estimated cost is $50,000. W. S. Ferguson Co. is Arch. and H. M. Adams is Mgr.

✚**Cleveland, Ohio**—The contract for the construction of an addition to the Hotel Statler has been awarded to the GEORGE W. FULLER CO., 111 Broadway, N. Y., $300,000.

✚**Cleveland, Ohio**—The contract for the construction of a two-story building for the Ohio State Telephone Co. has been awarded to the RUTHERFORD CO., 2160 East 18th St., Cleveland. The estimated cost is $50,000.

Cleveland, Ohio—The city contemplates the construction of a jail. The estimated cost is $1,000,000.

Columbus, Ohio—Preliminary plans are being prepared by Richards, McCarty & Bulford, Arch., Columbus, for the construction of a bank and office building at Gay and High St. for the Citizens Trust & Savings Co., 16 East Broad St.

Findaly, Ohio—Bids will be received until 1 p.m., Sept. 15, by Jean C. Copeland, Clk. Bd. of Hamcosk County, for the sale of $100,000 in bonds. The proceeds will be used for the construction of a county infirmary building.

Fremont, Ohio—Plans are being prepared for the construction of a temple for the Masonic Lodge. The estimated cost is $75,000.

Lorain, Ohio—The Lorain Hotel Co. will construct a hotel at Broadway and Eighth St.

✚**Springfield, Ohio**—The contract for the construction of the Shawnee Hotel has been awarded to CALDWELL & BLAKE, LaFayette, Ind. The estimated cost is $300,000.

Steubenville, Ohio—Bids will be received about Sept. 20 by the Board of Education for the construction of a school on North St. W. S. McClauslen is Clk.

Toledo, Ohio—Bids were received Aug. 27 for the construction of the Mott School from John Proch Co., $104,838; A. Bentley & Son, $105,000; H. J. Spieker Co., $106,950; Walls, Bock, Kuhlman Co., $109,000. George L. McKesson is Dir. of Schools. Noted Aug. 12.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y. (Continued)

	A	B	C	D	E	F	G
43,000 sq.ft. external walls of mezzanine stairways, including oak finish interior and copper finish exterior	$0.95	$0.90	$0.80	$1.00	$0.90	$1.10	$0.86
8500 sq.ft. external walls of mezzanine copper finish, including exterior tile finish interior	.85	.90	.76	.80	.85	1.20	.72
6100 sq.ft. external walls of mezzanine copper finish exterior, unfinished interior	.80	.80	.70	.80	.80	.95	.72
26,000 sq.ft. wood partition, including doors, windows, sheating	.56½	.60	.65	.50	.60	.60	.63
2000 lin.ft. copper gutters	1.00	.70	1.02	1.00	.90	1.57	.90
270 lin.ft. low sliding gates	8.00	9.00	7.91	10.00	9.00	12.50	8.10
160 lin.ft. high sliding gates	12.00	13.00	14.20	12.00	13.00	16.00	14.50
20 lin.ft. folding gates	11.00	10.00	3.95	12.00	11.00	7.30	4.25
15 lin.ft. low swing gates	10.00	8.00	8.10	12.00	11.00	12.50	8.45
26 gate controls	25.00	25.00	15.25	20.00	20.00	10.50	16.00
66 c.i. gate posts and cross frames	28.00	25.00	40.60	30.00	30.00	32.00	60.00
10 floor boxes (additional)	8.00	8.00	3.50	12.00	9.00	5.00	3.50
900 lin.ft. 1½-in. galvanized c.i. pipe for gate ropes	.30	.25	.31	.50	.30	.25	.33
1000 lin.ft. 1-in. square steel tubing, including c.i. pulleys	.37	.50	.47	.60	.55	.60	.48
20,000 sq.ft. roofs over mezzanine and pass beyond main stairway roof on train platform	.55	.62	.60	.50	.60	.50	.45
3000 sq.ft. roofs over existing structure at Woodlawn station, Section 295	.60	.35	.65	.40	.40	.35	.56
14,500 lin.ft. 3-in. corrugated galvanized iron leaders	.25	.25	.24½	.25	.30	.40	.25
870 lin.ft. 3-in. c.i. leaders	.50	.60	.37½	.60	.60	.35	.39
575 lin.ft. 3-in. w.i. leaders	.55	.80	.67½	.60	.75	.90	.93
5100 lin.ft. 3½-in. w.i. leaders	.60	.85	.77½	.60	.80	1.05	1.08
1350 lin.ft. 3-in. copper leaders	.50	.60	.55	.60	.55	.65	.44
2000 lin.ft. smoke flues from stove recesses	.38	.60	.30	.50	.60	1.50	.45
450 lin.ft. smoke flue protectors on platforms	1.00	1.20	1.00	1.00	1.00	1.00	.60
40 ton steel framing shapes, connections	70.00	80.00	78.50	70.00	90.00	80.00	75.00
1 ton riveted steel girders, columns and brackets	125.00	80.00	80.00	100.00	100.00	75.00	75.00
400 lin.ft. steel ladders	1.70	1.25	1.90	2.00	1.50	1.80	1.90
10 sq.ft. steel ladders, platforms	1.50	2.00	1.08	4.00	1.00	1.65	1.08
10,000 drill holes existing structure	.25	.30	.20	.25	.25	.30	.35
150 sq.ft. frames for enameled signs on mezzanine	1.50	1.70	2.50	2.00	1.60	1.65	2.52
1 frame and reflect type "A" illuminated sign on brackets attached columns	100.00	50.00	50.00	60.00	60.00	27.00	30.50
3100 sq.ft. sign frames on train platform railings	1.00	1.30	1.50	1.50	1.25	1.65	2.68
40 sign frames illuminated N. T. I.'s train platform, including seat	95.00	140.00	200.00	150.00	170.00	250.00	172.00
8000 sq.ft. enameled sign plates	.30	.35	.40	.25	.35	.35	.30
4000 vertical in. copper letter for signs	.12	.15	.12	.15	.15	.12	.15
4 frames and reflectors, type "B," illumined attached to concrete structure	45.00	60.00	45.00	50.00	50.00	75.00	35.00
34 sign frames illuminated, N. T. I.'s platform, metal panel	100.00	120.00	136.00	70.00	165.00	150.00	125.00
18 sign frames between columns on special canopies	12.00	20.00	25.00	25.00	20.00	20.00	92.00
3 marquises over entrance doors Gun Hill road station	125.00	110.00	177.00	200.00	150.00	155.00	165.00
8 marquises over entrance doors Woodlawn station	220.00	160.00	302.00	200.00	300.00	210.00	293.00
13,500 sq.ft. non-slip treads without wood block and anchor	.70	.90	.45	.80	.90	.70	.65
1600 sq.ft. non-slip treads with wood block and anchor	.80	1.00	.62	.85	.95	.85	.70
2200 sq.ft. stamped sheet metal in booths on mezzanine	.14	.13	.15	.15	.14	.20	.11
4000 sq.ft. metal lath without steel furring	.09	.12	.10	.15	.10	.06	.10
1900 sq.ft. metal lath with steel furring	.16	.18	.20	.15	.20	.13	.19
100 sq.ft. special wire forms	.25	.20	.10	.25	.40	.60	.20
11 type "B" ticket booth	440.00	400.00	600.00	400.00	400.00	430.00	467.00
11 type "D" ticket booth	550.00	500.00	725.00	400.00	500.00	650.00	725.00
3 type "E" ticket booth	525.00	500.00	720.00	400.00	600.00	525.00	625.00
700 lin.ft. oak seats in waiting rooms	3.00	3.00	3.00	3.00	3.00	3.45	3.00
77 oak doors, type "GG" for toilet stalls	10.00	12.00	10.00	12.00	12.00	8.00	9.00
750 sq.ft. windows in masonry portable wall fixed transom sash	.83	1.20	1.25	1.00	1.50	.75	1.25
735 sq.ft. windows in masonry exterior d.h. sash	1.00	2.00	1.50	1.00	1.50	.75	1.56
3800 sq.ft. windows in masonry exterior wall casement sash	1.00	1.50	1.20	1.00	1.10	.75	1.11
9000 sq.ft. windows in masonry portable exterior wall drop sash	1.00	1.10	1.40	1.00	1.10	.75	1.05
100 sq.ft. street in masonry exterior wall hinged sash	1.00	1.80	2.00	1.00	1.10	.75	.96
32 sewer connections, Section 257	125.00	140.00	95.00	100.00	125.00	95.00	100.00
33 water connections, Section 257	80.00	110.00	60.00	100.00	100.00	60.00	90.00
Concrete work, 161st street station, Section 295 (lump sum)	10,455.00	13,500.00	22,744.00	14,100.00	13,500.00	19,969.00	24,800.00
Concrete work, Gun Hill road, Section 295 (lump sum)	4,037.00	7,500.00	11,000.00	13,125.00	4,200.00	9,515.00	26,000.00
Concrete work Bedford Park boulevard, Section 295 (lump sum)	4,144.00	4,500.00	8,625.00	9,000.00	8,300.00	4,811.00	9,600.00
Brick chimney, Woodlawn station, Section 295 (lump sum)	70.00	200.00	150.00	300.00	250.00	166.00	217.06
Copper covered ceiling, Woodlawn station, Section 195 (lump sum)	125.00	400.00	1,210.00	2,000.00	350.00	378.00	540.00
Enclosed ramp East 180th street station, Section 295 (lump sum)	5,185.00	6,000.00	19,226.00	12,000.00	6,000.00	7,914.00	6,886.00
Extended totals	$860,636	$908,684	$944,347	$960,373	$971,387	$972,789	$1,414,305

St. Joseph, Mich.—The citizens voted to bond the city for the construction of a school to cost $100,000.

Chicago, Ill.—Plans have been prepared by Graham, Burnham & Co., Arch., for the construction of a 16-story office building at Wabash and Jackson Blvd., for the W. W. Kimbal Piano Co. The estimated cost is $1,250,000.

Ames, Iowa—The contract will soon be awarded for the construction of a dormitory and science hall at the Iowa State College. The estimated cost is $125,000.

Davenport, Iowa—Plans are being prepared for the construction of a four-story, 50x110-ft. addition to St. Ambrose College. The estimated cost is $100,000.

Harlan, Iowa—An election will be held Sept. 3 to vote on the question of issuing $120,000 in bonds, the proceeds of which will be used for the construction of schools.

New Hampton, Iowa—Plans are being considered for the construction of a hospital for the Sisters of the Holy Ghost. Estimated cost, $75,000.

Sioux City, Iowa—Plans are being prepared by Beuttler & Arnold, Security Bank Bldg., for the construction of a Masonic building at Douglas St. The estimated cost is $100,000. D. M. Brownlee is Chn. of Bldg. Com.

Duluth, Minn.—Plans are being prepared by F. G. German, Arch., for the construction of a church for the Pilgrim Congregational Church. The estimated cost is $100,000.

Minneapolis, Minn.—Plans are being prepared by Hewett & Brown, Arch., for the construction of a school for the Northorp Collegiate School. The estimated cost is $150,000.

Virginia, Minn.—Preliminary plans are being prepared by C. E. Nystrom, Arch., for the construction of a Trade School for the City of Virginia. Estimated cost, $100,000.

✚Omaha, Neb.—The contract for the construction of a gymnasium for Creighton University, Burt and 24th St., Omaha, has been awarded to the SELDON-BRECK CONSTRUCTION CO., at $117,000.

Havre, Mont.—It is reported that plans are being prepared for the construction of a Masonic Temple. The estimated cost is $100,000. Frank Bossmont, Havre, and Lincoln Halve, Helena, are Archs.

St. Louis, Mo.—W. J. Holbrook, 812 Olive St., is interested in a project to construct a $500,000 hotel at 12th and Locust St.

St. Louis, Mo.—The Glennon Club plans the construction of a $100,000 clubhouse on Laclede Rd.

✚Beaumont, Tex.—(Official)—The contract for the construction of an addition to the South Park School has been awarded to the GENERAL CONSTRUCTION CO., Beaumont, at $38,000. Noted Aug. 12.

Dallas, Tex.—Plans are being prepared by Stone & Webster, Engr., Commonwealth Bldg., for the construction of a Union Interurban Passenger Station. The estimated cost is $700,000.

El Paso, Tex.—Plans are being prepared for the construction of a four-story building on North Stanton St. for J. S. Lanier. The estimated cost is $72,000.

San Angelo, Tex.—(Official)—Bids will be received until Sept. 6 by the San Angelo School Board for the construction of a high school. The estimated cost is $65,000. Noted July 29 and Aug. 19.

✚San Antonio, Tex.—(Official)—The contract for the construction of a reinforced-concrete hospital to be known as the Robert B. Green Memorial has been awarded to the H. N. JONES CONSTRUCTION CO., Moore Bldg., San Antonio, at $245,000. Noted July 22.

Denver, Colo.—Plans have been prepared by Fisher & Fisher, Arch., for the construction of a five-story hotel on the two blocks bounded by 10th and 11th Ave and Lincoln and Grant St. The estimated cost is $1,500,000.

Denver, Colo.—Plans are being prepared for the construction of a national sanitarium. The estimated cost is $250,000. L. F. Bartols, Denver, is interested.

✚Florence, Ariz.—The contract for the construction of the Florence Union High School has been awarded to ALBRECTH ANDERSON, Phoenix, at $43,865. Other bids were: T. L. Edens, Phoenix, $44,075; Sparks & Hale, San Diego, $44,350; Lutguding & Egan, Phoenix, $44,478; Hughes & Toncray, Phoenix, $44,648; J. A. Tucker, Phoenix, $44,886; Clinton Campbell, Phoenix, $46,750. Noted June 3 and July 8.

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section No. 2, Route Nos. 36 and 37

Bids were received Aug. 4 by the Public Service Commission for the construction of the finish station on Section No. 2, Route Nos. 36 and 37, of the Astoria Elevated R.R., from: (A) Charles Meads & Co., 38 Park Row, New York, (B) Snare & Triest Co., 233 Broadway, New York, (C) Simon Russek, Inc., 261 Broadway, New York. The item bids were as follows:

	A	B	C
2300 lin.ft. stairways, wood, street to mezzanine	$1.60	$1.00	$1.40
3760 lin.ft. stairways, wood, mezzanine to platform	1.60	1.00	1.40
415 sq.ft. stair landings, wood, straight (street and mezzanine)	1.60	1.20	1.40
460 sq.ft. stair landings, wood, offset (street and mezzanine)	1.60	1.20	1.40
740 lin.ft. stair landings, wood, mezzanine to platform	1.60	1.20	1.40
10 ton stair supports, columns, hangers, etc	90.00	90.00	92.00
430 sq.ft. street landings, concrete	1.00	.90	.40
2200 cu.yd. columns foundations	6.00	4.00	13.20
30 brick or concrete manholes	.50	.55	.55
6 cu.yd. rock excavation	10.00	10.00	10.00
2500 lin.ft. hand rails	.50	.55	.70
3200 sq.ft. canopies, stairs, street to mezzanine	.70	.70	.85
13 canopies, street landings	40.00	80.00	53.00
36,800 sq.ft. canopies, train platforms (side)	.44	.40	.38
18,200 sq.ft. canopies, train platforms (island)	.44	.35	.38
840 lin.ft. railing, type "A"	3.00	4.00	4.90
570 sq.ft. railing, type "B"	1.00	1.20	1.20
120 lin.ft. railing, type "C"	3.00	3.50	5.70
10 lin.ft. railing, type "D"	3.00	4.00	4.90
1100 lin.ft. railing, type "E"	3.60	4.70	4.00
50 lin.ft. railing, type "F"	3.60	4.50	4.00
2910 sq.ft. railing, type "G"	.80	.90	.95
2340 lin.ft. railing, type "K"	3.00	4.50	3.90
2 additional posts	15.00	20.00	4.00
140 lin.ft. pipe railing	1.00	1.20	1.00
24 metal screens for stove recess	10.00	12.00	12.00
2450 lin.ft. wind screen with drop sash on train platform	5.00	5.00	7.00
185 standards on railings on train platform	16.00	23.00	7.60
50 free standing standards on island train platform	25.00	34.00	24.00
29,200 sq.ft. wood floors on train platforms	.28	.20	.28
5340 sq.ft. 8-in. concrete water proofing and wood	.70	.65	.60
3730 sq.ft. 11½-in. concrete water proofing and wood	.80	.75	.70
1060 lin.ft. platform edge supported on steel angles	.80	.90	.87
2½,200 sq.ft. asphalt floor, including wood floor	.45	.32	.35
2450 sq.ft. 8-in. concrete slab, 3-in. finish	.60	.50	.60
1500 sq.ft. cement wainscot and base	.20	.22	.12
12,630 sq.ft. connecting track floor over mezzanine water proofing rods, etc	.60	.45	.50
300 sq.ft. flooring for passageways	.50	.25	.20
125 ferriles for mezzanine roof	3.00	2.40	3.00
13,700 sq.ft. external walls of mezzanine stairway enclosure coping exterior interior wood	1.20	.95	.95
600 sq.ft. external walls of mezzanie coping exterior tile interior	1.40	.90	.90
18,160 sq.ft. wood partition walls including doors, windows, etc	.70	.60	.75
1750 lin.ft. copper cutters in place	1.00	.90	.90
55 lin.ft. low sliding gates	10.00	10.00	11.00
110 lin.ft. high sliding gates	12.00	14.00	14.50
12 gate controls	20.00	25.00	5.00
24 c.i. gate posts and cross frame	40.00	30.00	42.00
715 lin. ft. 1-in. sq. steel tubing for gate ropes, etc	.50	.60	1.00
9570 sq.ft. roof over mezzanine and passway beyond main structure	.60	.60	.60
4840 lin.ft. 3-in. corrugated galvanized iron leaders	.30	.30	.30
10 lin.ft. 3-in. c.i. leaders	1.00	.60	.60
540 lin.ft. 3-in. w.i. leaders	.50	.75	.70
540 lin.ft. 3½-in. w.i. leaders	.60	.85	.80
20 lin.ft. 3-in. copper leaders	1.00	.60	.70
930 lin.ft. smoke flues from stove recesses	.40	.60	.55
180 lin.ft. smoke flue protectors on platforms	1.00	1.20	2.50
1880 lb. c.i. fenders for structural columns	.10	.05	.05
41 ton steel framing and shapes	70.00	70.00	75.00
80 ton riveted steel girders, columing and bracing	80.00	70.00	80.00
25 lin.ft. steel leaders	2.00	2.00	2.50
10 sq.ft. steel leaders, platforms	2.00	1.00	1.20
1050 drilling holes in steel (existing structure)	.40	.30	.40
185 sq.ft. frames for enlarged sign in mezzanine	1.60	1.60	2.30
3 frames and repeators for illuminated signs on ° brackets attached to columns	40.00	45.00	30.00
660 sq.ft. sign frames on train platform railing	.70	1.20	1.15
24 sign frames illuminated N.T.'s on island platforms, seat	60.00	170.00	130.00
1700 sq.ft. enameled sign plates	.30	.40	.25
5 sign frames for illuminated N.T.'s on island plumbing metal	40.00	170.00	70.00
3500 sq.ft. non-slid treads without wood blocks and anchors	.80	.95	.70
400 sq.ft. non-slid treads with wood blocks and anchors	1.00	1.00	.80
980 sq.ft. stamper sheet metal in booths on mezzanine	.20	.15	.20
50 sq.ft. metal lath without steel furring	.40	.14	.10
8 type "B" ticket booth	400.00	450.00	400.00
2 type "B-B" ticket booth	700.00	800.00	700.00
240 lin.ft. oak seats in waiting rooms	4.00	3.00	3.50
24 type "G-G" oak doors toilets	12.00	13.00	12.00
95 hardware doors to toilet rooms, waiting rooms and closets	12.00	22.00	19.00
55 double hung sash	3.00	3.00	3.00
440 casement sash in mezzanines	4.00	5.00	4.00
44 casement in toilet and rooms and inclosure between stations	4.00	4.00	3.80
470 drop sash	2.00	1.20	1.40
140 hinged sash (top or bottom)	2.00	2.80	1.80
24 for toilet stall doors, type "G.G."	10.00	12.00	10.00
37 doors p. board and s. board boxes	2.00	2.00	2.00
4 sliding doors to transformer closets	10.00	7.50	6.00
16 vent doors	3.00	2.50	2.00
24 additional hardware, door checks	6.00	3.50	3.50
70 door stops	2.00	1.50	1.50
20 rubber covered chains	2.00	1.20	1.50
26 push plates	2.00	2.00	2.00
26 door pulls	2.00	2.50	2.50
53 kick plates	8.00	6.00	6.00
53 push bars	6.00	4.50	4.30
44 casement sash adjuster for single sash	4.00	2.50	2.30
4 casement sash adjuster for gang of two	10.00	8.50	8.50
6 casement sash adjuster for gang of three	12.00	11.00	11.00
8 casement sash adjuster for gang of four	16.00	13.50	13.00
40 casement sash adjuster for gang of five	16.00	16.00	16.00
35 casement sash adjuster for gang of six	20.00	16.00	16.00
16 sq.yd. plaster coat on masonry surface and for second coat on metal lath	1.00	1.50	.70
30 sq.yd. first or scratch coat on metal lath	1.00	1.50	.50
470 cu.ft. common brick	.80	.50	.50
100 cu.ft. hollow terra cotta tile	.80	.50	.45
24 for connecting stove recesses including all appurtenances except metal screens in place	30.00	35.00	4.50
2150 sq.ft. ¾ in. galvanized wainscot and trim on walls	1.20	1.50	1.30
280 sq.ft. ¾-in. galvanized chamber partitions	1.40	1.60	1.60
40 sq.ft. ¾-in. shelves	2.00	1.60	1.60
600 sq.ft. ¾-in. stall partitions	1.60	1.70	1.60
100 sq.ft. 1-in. floor slabs	2.00	2.70	2.50
435 lin.ft. curved corners and angles of glass	1.40	1.60	2.50
20 sq.ft. soap stone wainscoting and trim on wall	1.00	1.50	1.00
300 sq.ft. soapstone pipe chamber partitions	1.00	1.30	.90
75 sq.ft. soapstone shelves	1.50	1.40	1.00
75 sq.ft. soapstone stall partitions	1.50	1.40	1.00
20 sq.ft. soapstone floor slabs	1.00	1.50	1.10
50 lin.ft. curved corners and angles of soapstone	1.00	1.20	1.00
24,050 cu.ft. portable enclosures between stations	.18	.22	.23
20 wooden ladders	6.00	2.50	11.00
28 water closet bowls	45.00	60.00	47.00
24 lavatories in stations	30.00	44.00	29.00
3 lavatories in enclosure between station	30.00	40.00	27.00
28 urinals	75.00	85.00	80.00
13 slop sink	60.00	64.00	62.00
Rough plumbing work complete for all stations (lump sum)	6,400.00	10,600.00	7,000.00
Rough plumbing work complete for all enclosure between stations (lump sum)	1,000.00	700.00	1,240.00
90 posts (in toilet rooms)	6.00	15.00	9.80
180 lin.ft. top rails (in toilet rooms)	1.00	1.20	1.00
8 wall flanges (in toilet rooms)	1.00	1.50	2.00
12 register faces and frames in pipe chamber part	10.00	12.00	3.50
12 c.i. vent louvres in walls or ports, etc	10.00	18.00	4.50
3700 lb. glass and soapstone steel support	.10	.08	.07
30 coat and hat hooks in toilet rooms	2.00	1.50	.50
24,275 lin.ft. ¾-in. electric conduits	.12	.14	.14
6000 lin.ft. 1-in. electric conduits	.15	.17	.17
2400 lin.ft. 1¼-in. electric conduits	.20	.22	.21
250 lin.ft. 2-in. electric conduits	.30	.30	.30
200 lin.ft. 2½-in. electric conduits	.40	.40	.43
100 lin.ft. 3-in. electric conduits	.60	.55	.60
750 lin.ft. ¾-in. flexible conduit	.16	.20	.20
6 placing ferrules in walls other than masonry walls	5.00	1.00	1.00
1575 c.i. outlet boxes	1.00	1.20	1.00
25 c.i. pull boxes, 6 in. x 6 in. x 6 in	4.00	3.00	3.10
6 c.i. pull boxes, 12 in. x 12 in. x 6 in	8.00	7.50	8.00
6 c.i. pull boxes, 18 in. x 12 in. x 6 in	10.00	9.50	10.00
6 13 in. x 20 in. x 4 in. boxes hinged covers and locks	20.00	14.00	15.00
12 c.i. heater boxes	15.00	14.00	15.00
16 steel panel boxes, 25 in. x 60 in. x 5¼ in.	20.00	16.00	17.00
6 steel panel boxes, 25 in. x 48 in. x 5¼ in.	20.00	14.00	15.00
12 steel panel boxes, 25 in. x 36 in. x 5¼ in.	20.00	12.00	14.00
3 steel switch boxes	20.00	15.00	15.00
17,700 sq.ft. painting two coat work on plaster and cement surface	.02	.02	.02
Painting structure of existing structure as required by section 291 (lump sum)	1,500.00	3,200.00	700.00
6900 sq.ft. tile 3 in. x 6 in. straight	.40	.60	.50
400 sq.ft. tile 1-in. radius	.80	1.20	1.00
700 sq.ft. tile 2¼ in. radius	1.00	1.20	1.20
26 sewer and water connections, section 257 sewer	80.00	200.00	80.00
10 sewer and water connections, section 257 water (lump sum)	80.00	100.00	80.00
Wires, cables, poles, trees, section 13 and 295	7,000.00	10,500.00	3,500.00
44,160 cu.ft. recreation building at Ditmars Ave. Station, section 295	.12½	.20	.15
Extended totals	$268,102	$274,096	$285,249

EAST SIDE SEWER—TOPEKA, KAN.

✚ Bids were received July 22 for the construction of the East Side sewer, from, (A) Engineer's Estimate, (B) T. M. Torson, (C) JAMES A. PRINGLE (awarded contract), (D) Commercial Construction Co. The item bids were as follows:

	A	B	C	D
62,770 ft. 8-in. vitrified clay pipe	$0.65	$0.57	$0.60	$0.58
22,543 ft. 10-in. vitrified clay pipe	.76	.64	.75	.75
10,966 ft. 12-in. vitrified clay pipe	.95	.75	.87	.90
4682 ft. 15-in. vitrified clay pipe	1.52	1.06	1.46	1.50
3988 ft. 18-in. vitrified clay pipe	1.67	1.38	2.00	2.00
2947 ft. 21-in. vitrified clay pipe	2.44	1.55	2.46	2.50
2992 ft. 24-in. vitrified clay pipe	3.96	2.50	3.90	4.00
281 ft. 27-in. vitrified clay pipe	5.50	4.60	4.68	5.00
36 ft. 20-in. c.i. pipe	5.00	4.00	5.00	4.00
33,100 ft. 1-in. galvanized pipe	.20	.20	.20	.22½
98 flush tanks	65.00	58.00	65.00	75.00
248 manholes	45.00	35.00	45.00	45.00
200 cu.yd. concrete	7.00	8.00	8.00	8.00
25 M b.m. sheeting	30.00	30.00	30.00	30.00
Extra excavation	.50	.50	.50	.50
Extended totals	$129,191	$105,715	$125,834	$127,374

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

AUGUST BUILDING OPERATIONS

Returns of proposed building operations from plans filed for August throughout the country show a decided increase over the same period one year ago.

The total increase from the figures given below is $6,126,639, or about 12½%. Throughout the Eastern States there was a gain of about 18½%, in the South about 18%, in the Central States about 20%, and a loss of about 35% throughout the West. This loss is accounted for by the large amount of building which was done at the Expositions a year ago.

For the past 8 months building has shown a gain throughout the Eastern States of about $2,500,000 and compared with July of this year has increased about $3,000,000, or 11%, which is an improvement for this season of the year.

Below is given a table of contemplated building operations from representative cities throughout the country.

EASTERN STATES

	Month of August 1915	Month of August 1914	First Eight Months of Year 1915	First Eight Months of Year 1914
Albany, N. Y.	$249,745	$479,685	$2,678,495	$5,056,150
Bridgeport, Conn.	842,725	147,063	6,114,387	2,633,146
Buffalo, N. Y.	1,175,000	950,000	8,266,000	8,499,006
Elizabeth, N. J.	94,748	91,190	781,589	979,313
Hartford, Conn.	528,934	185,990	3,734,628	2,871,346
Hoboken, N. J.	21,565	2,727	565,964	730,727
Jersey City, N. J.	404,856	401,804	3,551,505	2,819,649
Newark, N. J.	569,441	3,196,000	5,795,110	8,440,280
New Bedford, Mass.	197,260	175,550	2,334,554	2,052,802
New Haven, Conn.	440,274	500,567	4,096,323	2,719,791
New York, N. Y.				
Bronx	1,558,750	1,206,900	19,330,250	17,282,968
Brooklyn	3,999,697	3,974,000	19,949,707	29,892,850
Manhattan	7,260,500	3,608,950	50,992,300	34,491,040
Queens	2,345,400	903,716	14,799,011	14,043,545
Paterson, N. J.	182,827	221,958	1,100,843	1,300,415
Philadelphia, Penn.	3,993,625	2,642,810	26,719,955	28,410,380
Pittsburgh, Penn.	740,265	1,127,069	6,132,203	11,978,217
Reading, Penn.	181,150	29,400	820,425	1,043,200
Rochester, N. Y.	772,174	808,457	6,291,965	6,904,625
Scranton, Penn.	88,779	185,388	1,206,899	937,852
Springfield, Mass.	400,095	489,290	4,106,039	4,026,189
Utica, N. Y.	235,985	86,670	1,509,090	1,117,045
Totals	$26,283,795	$21,415,184	$190,877,242	$188,230,536

CENTRAL STATES

	Month of August 1915	Month of August 1914	First Eight Months of Year 1915	First Eight Months of Year 1914
Akron, Ohio	$499,010	$555,120	$3,149,095	$2,910,205
Canton, Ohio	115,125	314,500	1,192,315	1,317,505
Cedar Rapids, Iowa	125,000	282,000	1,312,000	2,217,000
*Chicago, Ill.	9,513,150	5,769,450	56,241,830	58,834,810
Cincinnati, Ohio	3,048,475	1,128,060	9,772,764	7,172,060
Cleveland, Ohio	1,987,520	2,318,470	22,533,679	19,539,885
Columbus, Ohio	544,895	647,325	3,598,850	4,371,531
Des Moines, Iowa	151,500	111,150	1,226,020	1,269,514
Detroit, Mich.	3,217,490	2,171,085	18,926,130	21,859,830
Duluth, Minn.	262,051	238,023	1,833,961	2,184,864
Indianapolis, Ind.	463,972	472,436	4,322,796	6,568,841
Kansas City, Kan.	91,665	80,863	709,633	859,988
Kansas City, Mo.	725,830	527,395	7,060,325	8,540,325
Milwaukee, Wis.	1,073,079	626,681	6,746,564	7,025,347
Minneapolis, Minn.	1,031,070	943,975	11,231,221	8,197,700
Oak Park, Ill.	238,755	123,000	.....	.....
Omaha, Neb.	350,610	521,065	3,561,820	3,790,363
Peoria, Ill.	114,810	243,081	.....	.....
St. Louis, Mo.	932,446	797,165	8,002,297	9,903,076
St. Paul, Minn.	1,066,026	646,921	7,464,596	9,618,709
Toledo, Ohio	747,083	490,047	5,311,299	4,903,264
Youngstown, Ohio	154,815	261,565	1,753,037	2,275,826
Totals	$16,941,277	$13,499,927	$119,708,396	$124,525,833

SOUTHERN STATES

	Month of August 1915	Month of August 1914	First Eight Months of Year 1915	First Eight Months of Year 1914
Atlanta, Ga.	$370,600	$372,033	$3,115,437	$3,867,732
Birmingham, Ala.	137,615	314,549	.....	.....
Chattanooga, Tenn.	46,540	128,810	332,798	879,620
Dallas, Tex.	155,117	220,175	2,335,756	4,645,318
Ft. Worth, Tex.	127,265	301,100	800,652	1,612,831
Houston, Tex.	89,193	137,610	1,077,198	3,016,007
Louisville, Ky.	203,900	426,860	2,540,735	3,467,105
Memphis, Tenn.	273,295	175,661	2,020,073	2,523,549
Norfolk, Va.	75,632	241,625	1,276,675	1,812,415
Richmond, Va.	197,019	183,410	2,260,348	2,745,280
San Antonio, Tex.	181,260	170,050	.....	.....
Washington, D. C.	742,773	491,576	7,407,139	7,312,278
Totals	$2,600,209	$3,163,459	$23,166,811	$31,882,135

* Not included in totals.

WESTERN STATES

	Month of August 1915	Month of August 1914	First Eight Months of Year 1915	First Eight Months of Year 1914
Oakland, Calif.	$506,041	$411,889	$3,299,111	$3,281,059
Portland, Ore.	728,897	409,390	3,732,032	5,461,045
Salt Lake City, Utah	213,300	480,045	1,483,191	2,115,109
San Francisco, Calif.	970,090	1,415,271	9,036,563	24,161,483
San Diego, Calif.	62,770	208,408	776,947	2,573,646
Seattle, Wash.	454,960	1,565,525	3,960,165	9,969,970
Spokane, Wash.	50,335	31,455	821,469	806,752
Tacoma, Wash.	54,378	139,460	549,053	1,712,207
Totals	$3,040,771	$4,661,443	$23,658,531	$50,081,271

RAILWAYS

Maine—Harvey D. Eaton, Waterville, Maine, is interested in a project to construct an electric railway from Athens to Skowhegn, Maine, about 13 miles.

Massachusetts—Bay State St. Ry.—The Massachusetts Highway Commission has approved the new location and relocation of the tracks of this company in Washington St. from Hanover to Lloyd St., Lynn, and the relocation of tracks on Myrtle, Winter and Howard St., Saugus. M. S. Goff, Boston, is Vice Pres. and Gen. Mgr. Noted July 8.

Massachusetts—Springfield St. Ry. Co.—This company has petitioned the Council for a franchise to relocate its tracks on Mill St., Westfield, from West Silver St. to Court St. R. W. Reynolds, Springfield, is Mgr.

Pennsylvania—Southern Pennsylvania Traction Co.—This company has petitioned the Council for a franchise to extend its line from Chester to Eddystone. T. M. Wilson, Wilmington, Del., is Vice-Pres. and Gen. Mgr.

Maryland—Cumberland Electric Ry. Co.—This company will double track its line on Baltimore St. from the Western Maryland Ry. to the Baltimore & Ohio R.R. W. M. Roberts, Jr., is Mgr., Supt. and Pur. Agt.

Virginia—Norfolk & Western Ry.—This company plans to double track its City Point branch. J. E. Crawford, Roanoke, is Ch. Engr. Noted Feb. 11.

Georgia—The Chamber of Commerce, Rome, Ga., is promoting the construction, by the Seaboard Air Line Ry., of a railway from Rome south to Fish, about 14 miles.

Georgia—Southern Ry.—Surveys have been made by this company for a spur from Dalton to the Crown Cotton Mills. B. Herman, Washington, D. C., is Ch. Engr.

Alabama—The State Legislature has passed a bill authorizing the City of Mobile to issue bonds for the construction of a belt line railway.

Alabama—Alabama Great Southern R.R.—This company is securing a right-of-way for double tracking its line through DeKalb and Etowah County. Plans are also being considered for an extension to Gadsden. C. Dougherty, Cincinnati, Ohio, is Ch. Engr.

Alabama—New Orleans, Mobile & Chicago R.R.—This company has been reorganized and plans to revive the project of extending the line to Beaumont, Miss., to connect with the Louisville & Nashville R.R. B. V. Wright, Laurel, Miss., is Ch. Engr.

Louisiana—New Orleans Ry. & Light Co.—A petition has been presented to the City Council by the residents of upper South Claiborne Ave., asking that the New Orleans Ry. & Light Co. be permitted to proceed with the extension of the South Claiborne Ave. line from Broadway to Carrollton Ave., New Orleans. M. S. Sloan, New Orleans, is Gen. Mgr.

Louisiana—Shreveport Traction Co.—The Council has granted this company a franchise to double track its Highland Ave. Fair Grounds line from Marshall to Creswell St. on Stoner Ave. and from Stoner Ave. to the end of Herndon Ave. W. A. Sullivan, Shreveport, is Gen. Mgr. and Pur. Agt.

✚**Tennessee**—Morgan-Fentress Ry.—This company has awarded a contract for a section of its proposed railway to the CUMBERLAND CONSTRUCTION CO., Harriman.

Kentucky—According to press reports an electric railway will be constructed from Burkesville to Edmonton, Ky., about 22 miles.

Ohio—Cleveland Ry. Co.—This company will extend its line on East 123rd St. from St. Clair Ave. to Superior St. G. L. Radcliffe, Cleveland, is Gen. Mgr.

Ohio—Wheeling & Lake Erie R.R.—This company plans to connect its main lines with the United Steel plant and the proposed new blast furnace. W. L. Rohbock, Cleveland, is Ch. Engr.

Ohio—New York Central R.R.—Cincinnati, Chicago & St. Louis Ry.—According to press reports these companies have secured a site at Noble upon which they plan to construct yards. G. C. Cleveland, Cleveland, is Ch. Engr., New York Central R.R. and C. A. Paquette, Cincinnati, is Ch. Engr., Cleveland, Cincinnati, Chicago & St. Louis Ry.

Michigan—A special election will be held in Detroit Nov. 2 to vote on the question of the city purchasing the street car system owned by the Detroit United Ry. Co.

Michigan—Pennsylvania R.R.—This company plans to extend its line to Detroit, Mich. The estimated cost is $20,000,000. A. C. Shand, Philadelphia, is Ch. Engr.

Illinois—Alton, Granite & St. Louis Traction Co.—This company plans to relay its tracks on the north and south end of its Second St. line. O. C. Macy, Alton, is Supt.

Illinois—Lee County Electric Ry.—This company plans to relocate its tracks in Amboy and abandon its line on Main St. in order to build a line from Binghamton to Blackstone St. The proposed new line will give the company direct connection with both the Illinois Central Electric Ry. and the Burlington Ry. & Light Co.

Illinois—Peoria Ry. Co.—A franchise has been granted this company to double track its line on Frye Ave. from Wisconsin to Pacific St., Peoria. R. W. Bailey, Peoria, is Gen. Supt.

Minnesota—Electric Short Line Ry. Co.—A contract has been awarded by this company to H. F. BALCH & CO., Minneapolis, for the construction of an electric railway from Winsted to Hutchinson, Minn., about 45 miles. De Koven Hunter, Minneapolis, is Gen. Mgr.

Wisconsin—Ettrick & Northern R.R.—The State Railroad Commission has granted this company permission to construct a railway through Ettrick and Preston to a connection with the Green Bay & Western R.R. John C. Gaveney is Pres. Noted July 8.

South Dakota—Huron & Northwestern Ry.—According to press reports work will soon be started by this company on the construction of its proposed railway to connect Huron, S. D. and Hankinson, N. D. F. W. Henderson, Summit, S. D., is interested. Noted Apr. 29 and June 24.

South Dakota—Aberdeen R.R. Co.—This company, recently incorporated, will take over the existing system of the city and improve and extend it. Charles A. Howard, S. C. Hedger and Charles N. Harris are the incorporators.

Oklahoma—St. Louis & San Francisco R.R.—This company plans to extend its line from Depew northward into the coal field to connect with the Oil Field and Santa Fé line. F. G. Jonah, St. Louis, is Ch. Engr.

California—Pacific Electric Ry. Co.—This company has asked the Council for a franchise to construct a single track line on certain portions of Figuero St., Denver Ave., Hoover St., Menlo and Vermont Ave. J. McMillan, Los Angeles, is Gen. Mgr.

LIGHT, HEAT AND POWER

Pawtucket, R. I.—The Rhode Island Power & Transmission Co. is building a 30x100-ft. brick and concrete power station which will ultimately be capable of generating 30,000 kw. A contract has been awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., for transformers and a five-panel switchboard. The Connecticut River Transit Co., Worcester, Mass., is Engr.-in-Charge.

New York, N. Y.—(Borough of Manhattan)—Bids will be received until 2:30 p.m., Sept. 24, by E. S. Elwood, Secy. State Hospital Comn., Capitol, Albany, for the construction of a one-story brick and concrete power house at the Manhattan State Hospital, Wards Island. The estimated cost is $200,000. Lawis F. Pilcher is State Arch.

Tarentum, Penn.—Bids will be received until 7 p.m., Sept. 13, by the City Clerk for one 500-kw. alternating current steam turbine generating unit, surface condensing equipment, one switchboard and two motor-driven centrifugal pumps. Sidney B. Martin, Penn Bldg., Pittsburgh, is Consult. Engr. Noted Sept. 2.

Baltimore, Md.—The Consolidated Gas, Electric Light & Power Co. will build additions to its substation on Monument St. near Front St., consisting of two two-story wings, 48x135 ft. and 47x142 ft. respectively, of brick and reinforced concrete. E. D. Edmondston is Gen Supt.

Hickory, N. C.—(Official)—Bids will be received until 10 a.m., Oct. 12, by S. C. Cornwell, City Mgr., for a 30-year franchise to operate electric-light and power, fuel and heating plants.

Summit, Ga.—It is reported that the towns of Summit and Graymont, Emanuel County, will vote for a bond issue of $5000 to be used for installing an electric-light plant to serve both towns.

Chattanooga, Tenn.—It is reported that the Nashville, Chattanooga & St. Louis Ry. will purchase power equipment for the operation of an inclined railway on Lookout Mountain, Chattanooga. H. McDonald, Nashville, is Ch. Engr.

Cynthiana, Ky.—It is reported that the Kentucky Utilities Co., Lexington, contemplates purchasing the plant of the Cynthiana Electric Light Co. It will be improved and enlarged. G. E. Hyde, Lexington, is Mgr. and Engr. of the Kentucky Utilities Co.

Junction City, Ky.—The establishment of a municipal electric-light plant is under consideration.

Providence, Ky.—At the November election the question of issuing $20,000 in bonds will be submitted to the voters. The proceeds will be used for the establishment of a municipal electric-light plant.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Oct. 1, by the Board of Commissioners of Hamilton County for remodeling the heating system of the Ohio National Guard Armory on Freeman Ave., Cincinnati. Albert Reinhardt is Clk. of Comrs.

Kent, Ohio—(Official)—Bids will be received until noon, Sept. 25, by J. A. McDowell, Secy. Bd. of Trustees of the Kent State Normal School, for two water-tube boilers with breeching and all enclosures, and with all piping from the heating plant to three school buildings; also for all radiation, fans, motors, galvanized iron work and temperature regulation for heating the auditorium, office and library building, the administration building, and the agricultural and training building. George F. Hammond, 4220 Prospect Ave., Cleveland, is Arch.

Wellsville, Ohio—No bids were received Aug. 7 [illegible] the $60,000 worth of city bonds, the proceeds of which would have been used for the installation of a municipal electric-light plant. The project will be postponed for a time. Noted July 15.

Crawfordsville, Ind.—It is reported that within six months, the Crawfordsville Electric Light & Power Plant (municipal) will purchase one 1500-kw. turbo-generator with condenser pump, switchboard and steam heater. F. Miller is Mgr. and Supt.

Kalamazoo, Mich.—It is reported that F. W. Ballard, Ch. Engr., of the municipal electric-light plant of Cleveland, Ohio, has made a survey of the municipal plant of Kalamazoo, and has recommended that $350,000 in bonds be issued for the purpose of extending and improving the present system. Andrew Lenderink is City Engr.

Bloomington, Ill.—Illinois Wesleyan University has awarded contract for two 350-hp. water-tube boilers in its new heating plant to the SPRINGFIELD BOILER & MFG. CO.

Elizabeth, Ill.—Bids will be received until 2:30 p.m., Sept. 13, by the Elizabeth Light & Power Co. for building three miles of transmission line, a substation and distribution system. Dr. A. J. Nichols, Elizabeth, is interested.

Upper Alton, Ill.—The lowest bid received by the State Hospital Commission, Springfield, for the construction of a power house at the Alton State Hospital was that of J. J. Wuellner & Sons, Alton, at $55,400. Noted Aug. 12.

Thief River Falls, Minn.—A special election will be held Sept. 30 by the city to vote on a bond issue of $38,000 for the purpose of improving and extending the municipal electric-light plant. E. J. Overland is City Clk.

Cherokee, Iowa—The contract for plumbing and heating equipment in the Cherokee High School has been awarded to SWANSON & BETSWORTH, Cherokee, at $12,873.

Perry, Iowa—It is reported that the Iowa Ry. & Light Co., Cedar Rapids, contemplates rebuilding its plant at Perry. Estimated cost, $60,000. William G. Dows, Cedar Rapids, is Pres. and Gen. Mgr.

Tekamah, Neb.—The city is preparing to build a new power house for the municipal electric-light plant, and will purchase one 150-hp. corliss-type engine, two boilers, a 100-kw. generator and a switchboard. A. G. Howard is Mgr. of the plant. Noted June 10.

Austin, Tex.—It is reported that the city has issued $40,000 in bonds for the purpose of enlarging and improving the municipal electric-light plant. A. P. Wooldridge is Mayor.

Denison, Tex.—It is reported that the Texas Power & Light Co. has purchased a site on the Red River near Denison for a hydro-electric plant. Estimated cost, $750,000. The plant will furnish power to operate a part of the lines of the Texas Traction Co., and for lighting and other purposes in northern Texas and southern Oklahoma by the use of high-tension transmission lines. Noted July 17, 1913, and July 8, 1915.

Galveston, Tex.—It is reported that the Galveston Gas Co. will make improvements in its gas manufacturing plant to cost about $150,000.

Kyle, Tex.—The Kyle Light & Power Co. is being organized for the purpose of establishing an electric-light and power plant. W. W. Giessen, San Marcos, is interested.

Socorro, N. M.—The Socorro Light & Power Co. has been organized with a capital stock of $50,000. It will build an electric-light plant. C. T. Brown is interested.

Pocatello, Idaho—It is reported that the Oregon Short Line R.R. will install a heating plant in its roundhouse at Pocatello. Plans are being prepared by C. C. Kennicott, Salt Lake City, Utah.

Peach Springs, Ariz.—(Nelson post office)—Epes Randolph, Tucson, and associates, have received permission from the Department of the Interior to make preliminary surveys for the dams they plan to build across the Colorado River near Peach Springs, and for the series of hydro-electric plants to develop a total of 400,000 hp. The first dam and plant will be located in Diamond Cañon, and will develop about 50,000 hp. J. B. Girard, City Engr. of Phoenix, is interested in the project, and will have charge of the surveys to be made.

Toronto, Ont.—The Toronto Hydro-Electric Commission plans to build a substation at the St. Lawrence Market, Toronto. The building will be of steel.

BRIDGES

Augusta, Maine.—Bids were received Aug. 26 by the State Highway Commission for the construction of the Milo Bridge as follows: (a) lump sum, (b) extra concrete, per cu.yd., (c) extra fill, per cu.yd.; E. T. Hartwell, Oldtown, (a) $5427, (b) $9, (c) 75c.; Hobart & Richardson, Oldtown, (a) $7016, (b) $12, (c) 85c.; John Connor, Oldtown, (a) $4832, (b) $6.50, (c) 75c.; Cyr Bros., Waterville, (a) $4900, (b) $10, (c) $1; Small & Ingalls, Bar Harbor, (a) $5350, (b) $12, (c) $1.50; H. A. Brown, Foxcroft, (a) $6500, (b) $10, (c) 83c.; Sanders Engineering Co., Portland, (a) $5980, (b) $14, (c) 75c.; Noyes & Campbell, Augusta, (a) $7790, (b) $20, (c) $1. The lowest bid for the Frankfort Bridge was that of Cyr Bros., at $2792; for the Montville Bridge, E. L. Gerald, Clinton, at $2164.

Providence, R. I.—(Official)—The Department of Public Works has awarded the contract for building abutments of the Randall St. Bridge to the BRIGGS ENGINEERING & CONSTRUCTION CO., at $11,624. Other bidders were: Cruise & Smiley Construction Co., $12,918; Valley Co., $13,132; Farnighetti Bros. Co., $11,738.

Buffalo, N. Y.—(Official)—Bids will be received until 11 a.m., Sept. 15, by the Grade Crossing Commission, 436 Ellicott Sq., for a 162-ft. riveted truss through span on Bailey Ave. over the tracks of the Pennsylvania R.R. Edward B. Guthrie is Ch. Engr., Grade Crossing Comn.

Greenwich, N. Y.—(Official)—The towns of Greenwich and Easton have awarded contracts for construction of three concrete-steel bridges at Greenwich Village, Middle Falls and Clarks Mills to N. R. PORTERFIELD, 17 Battery Pl., New York, at $41,000. Other bidders were: K. O. Guthrie, Schenec-

tady, $44,000; Woolsey Construction Co., Poughkeepsie, $47,500; Flood & Van Wirt, Hudson Falls, $46,000. Foster Construction Co., Newark, N. J., $46,074. Noted Aug. 12.

+Trenton, N. J.—The Board of Chosen Freeholders of Mercer County has awarded the contract for the construction of a bridge over Sanhican Creek at Willow St. to WHITTAKER & DIEHL, Harrisburg, Penn., at $8176. Other bidders were: F. W. Sehwiers, Jr., Co., $8300; Foster Construction Co., $8873; Reese Taylor Co., $9018; Ginder Construction Co., $9670; Antonio Celentino, $10,619; American Paving & Construction Co., $11,475; G. B. Henderson & Son, $11,500; Charles T. Eastburn, $11,750. Noted Aug. 5 and 26.

Harrisburg, Penn.—The State Water Supply Commission has approved plans for the construction of the following bridges: Bucks County, bridge across Fall Creek on the Bridgetown-Revere Rd., Bridgetown Township, bridge over Trout Run, on the Pebble Hill Rd., Doylestown Township; Armstrong County, bridge over Cowanshannock Creek in Rayburn Township; Schuylkill County, bridge over Mahonoy Creek on road from Maizeville to Frackville, bridge over Mahonoy Creek at Gilberton.

++Philadelphia, Penn.—The Department of Public Works has awarded the contract for the Holme Ave. Bridge to the McNICHOL PAVING & CONSTRUCTION CO., at about $72,000. Noted July 29 and Aug. 12.

+Clarksburg, W. Va.—(Official)—Harrison County Court awarded contract for abutments and piers of bridge across West Fork River to McPHERSON BROS., Edgeworth, Penn., at $1.90 per sq.yd. for brick on concrete base. Other bidders were: Frech & Allen, $1.96; Keeley Bros., $1.95; Cisler & Morris, $2.08; W. F. Allen, $2.12; Charles H. Hoyt, $2.19. Noted Aug. 26.

++Wilson, N. C.—(Official)—The Board of Drainage Commissioners, Mattamuskeet Drainage District, has awarded contract for a single-leaf plate girder Scherzer rolling lift bridge to the CHAMPION BRIDGE CO., Wilmington, Ohio. Noted Aug. 12.

Arcadia, Fla.—The Board of Commissioners of De Soto County contemplates the construction of a new bridge over the Kissimmee River. The estimated cost is $10,100.

+Clearwater, Fla.—The Commissioners of Pinellas County have awarded the contract to the EDWARDS CONSTRUCTION CO., Tampa, for several bridges in connection with new road construction. The reported cost of the bridges is $45,000.

Akron, Ohio—(Official)—Commissioners of Summit County awarded contract for approaches and paving the Louis Young Bridge in Coventry Township to W. E. BURK & SON, Akron, at $4150. Other bidders were: D. E. Bowers, $4695; Ruhlin Bros., $4260; Portage Engineering Co., $4270. Noted Aug. 12.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 17, by Commissioners of Hamilton County for a bridge and retaining wall on Four Mile Rd., Anderson Township. Albert Reinhardt is Clk. of Comrs.

Cleveland, Ohio—(Official)—Bids will be received until 11 a.m., Sept. 22, by the Board of Commissioners of Cuyahoga County for bridge work, Report No. 3567. W. A. Stinchcomb is County Surv. E. G. Krause is Clk. of Comrs.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Sept. 25, by E. G. Krause, Clk. of Comrs. of Cuyahoga County, for bridge work, Report No. 3591.

Columbus, Ohio—(Official)—Bids will be received until noon, Sept. 17, by the Board of Commissioners of Franklin County for the following bridge work: Paving east approach to the Schrock Bridge, Blendon Township; foot bridge over the Scioto River on Mound St., Columbus; hand-rail on the Agler Bridge over Alum Creek, Mifflin Township. John Scott is Clk. of Comrs.

Dayton, Ohio—The City Commission has passed ordinances for the issuance of $338,000 for rebuilding the Fifth St. Bridge across the Miami River, and the Webster St. Bridge across the Mad River, at an estimated cost of $200,000 and $138,000 respectively. Both these bridges were destroyed in the flood of 1913. G. C. Cummin is City Engr.

+Delaware, Ohio—The Commissioners of Delaware County have awarded the contract for the steelwork of the Winters St. Bridge to the DELAWARE BRIDGE CO., at about $17,500. The contract for the wood block floor was awarded to the ELKHART BRIDGE & IRON CO., Elkhart, Ind. Noted Aug. 12.

Delphos, Ohio—Bids will be received until noon, Sept. 22, by H. J. Lawlor, Audr. of Allen County, Lima, for two bridges over Flat Fork, one on Franklin and the other on Fifth St., Delphos.

Hamilton, Ohio—At the request of the Miami Conservancy Board, the Commissioners of Butler County have instructed the County Auditor to withdraw the advertisement for bids to be received Sept. 13 for the construction of the Columbia Bridge at Chestnut St. This action is taken until plans for flood prevention in Hamilton shall have been completed and adopted. It is expected that these plans will be finished in about 30 days. F. M. Hammerle is County Engr. Noted Aug. 12 and Aug. 26.

Milford, Ohio—The Commissioners of Clermont County, Batavia, have sold $8000 worth of bridge bonds, the proceeds of which will be used for the construction of a bridge across the East Fork of the Miami River in South Milford.

+Mt. Gilead, Ohio—(Official)—Commissioners of Morrow County have awarded contract for Beatty Bridge, Cardington Township, to E. M. SCULLY, Columbus, at $3750. Noted July 29.

+New Philadelphia, Ohio—(Official)—The Commissioners of Tuscarawas County have awarded the contract for a bridge over Sugar Creek Falls in Franklin Township to the MASSILLON BRIDGE CO., Massillon, at $2300 for the steel span, and $3.98 per sq.yd. for the floor. Noted Aug. 12.

Norwalk, Ohio—Bids will be received until 10:30 a.m., Sept. 14, by Charles E. Bloomer, Audr. of Huron County, for a concrete bidge in Clarkfield Township.

+Ravenna, Ohio—(Official)—The Commissioners of Portage County have awarded the contract for a 75-ft. steel bridge over the North Mahoning River in Charlestown Township to C. PINNEY, Ravenna. Noted Aug. 12.

Steubenville, Ohio—(Official)—Bids will be received until noon, Sept. 17, by the Commissioners of Jefferson County for the construction of Bridge No. 33 in Warren Township, known as the Weatherston Bridge. It will be a concrete arch. John L. Means is County Audr.

+Bedford, Ind.—(Official)—The Commissioners of Lawrence County have awarded the contract for four county bridges to the INTERNATIONAL STEEL & IRON CO., Evansville, at $5200. Other bidders were: Bedford F. & M. Co., $6728; Herman S. Fox, $5743; East St. Louis Bridge Co., $7839; Central States Bridge Co., $7164; Vincennes Bridge Co., $6446. Noted Aug. 19.

+Allegan, Mich.—The Drain Commissioner of Allegan County has awarded contract for three new bridges over the Gun River Drain to the ELKHART BRIDGE & IRON CO., Elkhart, Ind., at $4419. They will be of steel with concrete floors.

Grand Rapids, Mich.—The lowest bid received by the Board of Public Works for a bridge over the tracks of the Grand Trunk Ry. on College Ave., N. E., was that of D. W. Boyes, Grand Rapids, at $12,908. The engineer's estimate was $14,998. L. E. Stevens is City Engr.

+Green Bay, Wis.—(Official)—The Committee on Streets and Bridges has awarded the contract for a Strauss bascule bridge across the East River at Main St. to the GREILING BROS. CO., Green Bay, at $56,815. Other bidders were: Adolph Green, Green Bay, $56,815; Worden-Allen Co., Milwaukee, $58,400; Seims-Carey Co., St. Paul, Minn., $58,500; Edward E. Gillen Co., Milwaukee, $65,900. Noted Aug. 5.

+Milwaukee, Wis.—The County Board of Milwaukee County has awarded the contract for a concrete bridge over the Root River in the Town of Franklin on the Kilbourn Rd. to JOSEPH UBBICK, at $9704.

+Nekoosa, Wis.—The contract for a four-span 875-ft. bridge across the Wisconsin River has been awarded to the WAUSAU IRON WORKS, Wausau, at $42,889.

St. Paul, Minn.—It is reported that the City Council has adopted an emergency ordinance demanding that the Great Northern Ry. at once rebuild the Jackson St. Bridge over its tracks. Oscar Claussen is City Engr.

Ft. Riley, Kan.—It is estimated that the cost of replacing the bridge across the Republican River, which was washed out by the June floods, will be $30,000. The post authorities have petitioned the War Department to build a reinforced-concrete bridge of two 150-ft. spans and a 20-ft. roadway.

+Ogden, Kan.—(Official)—The Commissioners of Riley County, Manhattan, received bids Sept. 1 for the repair of a bridge over the Kansas River at Ogden, as follows: CANTON BRIDGE CO., Kansas City, Mo., $10,800 (awarded contract); Leavenworth Bridge Co., $12,500; Western Bridge Co., $11,773. The engineer's estimate was $12,097. W. S. Gearhart, State Highway Engr., is Engr.-in-Charge. Noted Aug. 26.

+Alma, Neb.—(Official)—The Commissioners of Harlan County have awarded the contract for bridge construction for a period of one year to the MONARCH ENGINEERING CO., Falls City, Neb. Noted Aug. 26.

Fairbury, Neb.—The Commissioners of Jefferson County contemplate constructing a 700-ft. bridge in Fairbury to replace present structure. Estimated cost, $30,000.

Tekamah, Neb.—(Official)—Bids will be received until noon, Sept. 18, by the Board of Directors of the Burt-Washington Drainage District, S. S. Breckenridge, Secy., for the construction of seven 100-ft. bridges and other smaller bridges in the district. The Towl Engineering Co., 1122 City National Bank Bldg., Omaha, is Drainage Engr.

+Medora, N. D.—(Official)—Billings County and the State Highway Commission have awarded the contract for a bridge over the Little Missouri River to the ILLINOIS STEEL BRIDGE CO., St. Paul, Minn., at $14,580. Other bidders were: Security Bridge Co., $15,698; Fargo Bridge & Iron Co., $16,100; Continental Bridge Co., $16,400; Iowa Bridge Co., $15,300; Midland Bridge Co., $17,500; Minneapolis Bridge Co., $16,000. Noted Aug. 12 and Sept. 2.

Roundup, Mont.—Bids will be received until Sept. 10 by the Commissioners of Musselshell County for four steel bridges over the Musselshell River as follows: Ryegate, 140-ft. span; Delphia, 140-ft. span; Gage, 123-ft. span; Absher, 140-ft. span on 175-ft. base with two piers. Ray E. Bushnell is County Surv.

Gallatin, Mo.—The Board of Commissioners of Daviess County plans to rebuild bridges destroyed by recent floods at a loss of about $40,000.

Joplin, Mo.—The city has recently voted a bond issue of $13,000 to pay its share of the cost of a viaduct over the tracks of the Kansas City Southern Ry. The city will bear one-third the expense, and the Kansas City Southern and the Missouri, Kansas & Texas Ry. will pay the remainder. Plans have been prepared by the railway companies. Noted Feb. 25 and June 3.

+Devall Bluff, Ark.—The Commissioners of Road District No. 1 have awarded the contract for four new bridges to M. KELLY, Little Rock.

El Dorado, Ark.—(Official)—Bids will be received until 10 a.m., Sept. 25, by the Commissioners of Union County for the construction of a bridge across Beech Creek on the El Dorado and Mt. Holly Rd., on the site of the old bridge. W. H. Hawkins is Chn. of Comrs.

Laredo, Tex.—It is reported that bonds for $15,000 have been issued by the city, the proceeds of which will be used for bridge construction. E. J. Foster is City Engr.

Rockport, Tex.—A special election will be held Sept. 18 to submit to the voters the question of issuing $300,000 in bonds, the proceeds of which will be used for building a reinforced-concrete causeway across Aransas Bay between Lamar and Live Oak peninsulas. Roy Jackson is Judge of the Aransas County Commissioners Court.

Chandler, Okla.—Bids will be received until Sept. 13 by J. C. Pringey, Clk. of Lincoln County, for the construction of 12 steel bridges in the county.

✚**Oklahoma, Okla.**—The contract for a four-span steel suspension bridge over the Canadian River has been awarded to the BAKER CONSTRUCTION CO., at $60,000.

✚★**Tulsa, Okla.**—(Official)—The Commissioners of Tulsa County have awarded the contract for the construction of an 18-span reinforced-concrete bridge over the Arkansas River to the MISSOURI BRIDGE & IRON CO., Leavenworth, Kan., at $160,000. Other bidders were: Midland Bridge Co., Kansas City, Mo., $19,345; Winston Bros. Co., Minneapolis, Minn., $165,984; Kansas City Bridge Co., Kansas City, Mo., $190,167; H. G. Glass, San Antonio, Tex., $185,297; Joseph T. Luntey, Tulsa, $164,422. Noted July 22 and Aug. 5.

Artesia, N. M.—The Commissioners Court of Eddy County and James A. French, State Engr., Santa Fé, have authorized the extension of the bridge across the Pecos River at Artesia.

Hailey, Idaho—Bids will be received until Sept. 13 by the Commissioners of Blaine County for the construction of a bridge across the Malad River.

✚**Pocatello, Idaho**—The Commissioners of Bannock County have awarded the contract for removing old bridge, and constructing a new one across the Snake River near Tilden to the MIDLAND BRIDGE CO., Kansas City, Mo., at $7250.

✚**Clifton, Ariz.**—The Board of Supervisors of Greenlee County has awarded contract for driving 500 piles for the protection of the new Duncan Bridge to the EL PASO BRIDGE CO., El Paso, Tex., at $19.95 per pile.

✚**Dunsmuir, Calif.**—Bids were received Aug. 23 by the State Highway Commission, Sacramento, for the construction of a reinforced-concrete bridge over the Sacramento River near Dunsmuir, as follows: F. H. GREEN, Eureka, $22,600 (awarded contract); P. J. Lechner, Alameda, $23,994; Moffett & Mead, San Francisco, $24,750; Pacific Coast Construction Co., Fresno, $27,300. The engineer's estimate was $22,267. Noted Aug. 5 and 12.

✚**El Monte, Calif.**—The Supervisors of Los Angeles County, Los Angeles, have awarded the contract for a reinforced-concrete bridge over the San Gabriel River at El Monte to MESMER & RICE, Marsh-Strong Bldg., Los Angeles, at $93,000. Noted July 29 and Aug. 19.

✚**Santa Barbara, Calif.**—The City Trustees have awarded the contract for the construction of a bridge at Carillo and Castillo St. to MUNOZ & MUNOZ, Los Angeles, at $18,000. Noted Apr. 29.

✚**Ventura, Calif.**—(Official)—The Board of Supervisors of Ventura County has awarded the contract for the Conejo Bridge near Camarillo to MUNOZ & MUNOZ, Central Bldg., Los Angeles, at $7733. The contract for the approach to the Saticoy Bridge was awarded to the BOARDMAN CONSTRUCTION CO., W. P. Story Bldg., Los Angeles, at $6000, and for the abutment for the same structure to the PUTNAM STONE CONSTRUCTION CO., Pasadena, at $10,811. Noted Aug. 19.

Yreka, Calif.—(Official)—No bids will be received by the Superivisors of Siskiyou County for the construction of a bridge over the Scott River as the work is to be done under an emergency act. W. J. Neilon is County Clk. Noted Aug. 26.

WATER SUPPLY—IRRIGATION

✚**Boston, Mass.**—The contract has been awarded to the STANDARD CAST IRON PIPE & FOUNDRY CO., Bristol, Penn., at $12,633, for furnishing water pipe.

✚**Centerville, N. Y.**—Contracts have been awarded to ABNEY HARPER CO., Inc., Newburgh, at $8277, for laying water mains and to R. D. WOOD & CO., Philadelphia, Penn., at $10,883, for furnishing water mains and specials. Noted July 29 and Aug. 26.

New York, N. Y.—(Official)—Bids were received Aug. 31 by the Board of Water Supply for water-pipe equipment for operating valves in the shafts of the city tunnel of the Catskill Aqueduct as follows: F. N. Lewis, 411 Manhattan Ave., New York, $13,411; D. C. Serbe & Lassette & Murphy, $13,814; Conners Bros. Co., $15,858 and H. E. Fox, $17,405. Noted Aug. 19.

Trumansburg, N. Y.—The construction of a municipal water system has been postponed as the majority of the citizens are not in favor of it. Noted May 6.

East Orange, N. J.—F. N. Lewis, New York, N. Y., at $41,911, was low bidder for making extension to the water distributing system, materials to be furnished by the city. Noted Aug. 19.

New Brunswick, N. J.—The installation of a filtration plant at the water-works is under consideration by the city.

Peapack, N. J.—The Borough Council plans to issue $55,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Feb. 26.

Allentown, Penn.—Bids will be received about Sept. 15 by the City Council for furnishing new equipment at the pumping station. The estimated cost is about $30,000. Joseph A. Schmidt is City Clk. Noted Aug. 12.

✚**Bradford, Penn.**—The contract has been awarded to M. APPLEGATE & Son, for laying water mains. The contract for furnishing pipe has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO.

Wheeling, W. Va.—An election will be held in the fall, according to press reports, to vote on the question of issuing $300,000 in bonds, the proceeds of which will be used for the construction of a well system for the water-works. Noted July 8.

Baconton, Ga.—Bonds for $5500 have been voted by the citizens, the proceeds of which will be used for the construction of water and electric-light systems. J. B. Miller is Mayor. Noted Aug. 5.

Helena, Ga.—The city contemplates spending $8000 for the construction of a water system.

✚**Phenix City, Ala.**—(Phœnix post office)—The contract has been awarded to the SCHOFIELD'S IRON WORKS, Macon, Ga., at $5100, for constructing a 180,000-gal. standpipe for the water system. Noted Apr. 29.

Wesson, Miss.—M. L. Culley, Jackson, has been retained by the city to prepare plans for the construction of a water system.

Covington, Ky.—Bids will be received until Sept. [illegible] by J. Mason Howk, Comr. Pub. Property, for trenching in [illegible]cking River. Noted Aug. 5.

Hawesville, Ky.—The Hawesville Water & Light Co., recently incorporated with $12,000 capital by W. H. [illegible]illiams and others, will construct a water system.

✚**Bluffton, Ohio**—The contract has been awarded to THEODORE G. SCHEILD, Lima, at $15,523, for making improvements to the water system. Noted May 6.

Oberlin, Ohio—Press reports state that bids will be received until Sept. 10 by the City Clerk for constructing a 10,000,000-gal. reservoir. Noted Aug. 12.

✚**Silverton, Ohio**—(Official)—The contract has been awarded to W. D. MEGRUE, Pleasant Ridge, Cincinnati, for laying 6-in. water main in various streets. Noted Aug. 26.

Miller, Ind.—Bids will be received until Sept. 15 by the Town Clerk for constructing a water system. The estimated cost is $14,000. W. J. Fulton, Gary, is Engr. Noted Aug. 26.

South Lyon, Mich.—The citizens at a recent election voted against the question of isuing bonds for $16,000, the proceeds of which was to have been used for the construction of a water system. Noted June 3.

Amboy, Ill.—(Official)—Bids will be received until 2 p.m. Sept. 27, by F. N. Vaughan, Mayor, for constructing a steel water tank. F. A. Flach is City Clk.

Lemont, Ill.—An election will be held Sept. 14 to vote on the question of issuing $8000 in bonds, the proceeds of which will be used for the extension of the water system. M. Keough is Chn. Bd. of Trustees.

Mackinaw, Ill.—The water plant of the Mackinaw Water Co. will be purchased by the city. An appropriation of $8500 has been made for this purpose. An election will be held Sept. 10 to vote on the question of issuing bonds, the proceeds of which will be used for the enlargement of the system.

Oshkosh, Wis.—Plans are being prepared for the construction of a filtration plant at the water-works. J. C. Walter is Asst. City Mgr. Noted Aug. 26.

Akron, Iowa—Bonds for $5000 have been voted by the citizens, the proceeds of which will be used for the improvement of the water system.

✚**Charlton, Iowa**—Contracts have been awarded for constructing a water system as follows: MALEY & KELLEY, Kansas City, Mo., at $38,000, for constructing an earth dam; J. W. TURNER IMPROVEMENT CO., Des Moines, Iowa, at $11,000, for constructing a pumping station and at $18,639, for constructing a pipe line and to the PITTSBURGH FILTER CO., at $4637, for equipment. Noted Aug. 19.

✚**Le Mars, Iowa**—The contract has been awarded to the DES MOINES BRIDGE & IRON CO., at $4350, for constructing a water tower.

Salix, Iowa—Press reports state that bids will be received until Sept. 15 by J. M. Huck, Village Clk., for constructing a water system. W. L. Bruce, Yankton, S. D., is Engr. The estimated cost is $10,000. Noted June 3.

Carlton, Minn.—The Council contemplates installing a water system. The estimated cost is $16,000.

✚**Hopkins, Minn.**—The contract has been awarded to the SYKES CO., Minneapolis, for constructing water mains in 12th Ave. N. and in Seventh Ave. N.

✚**St. James, Minn.**—The contract has been awarded to J. G. ROBERTSON, St. Paul, for constructing a water system.

Watkins, Minn.—An election will be held to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a water system. Noted May 20.

Attica, Kan.—The city has retained E. T. Archer & Co., Kansas City Mo., to prepare plans for the construction of a water system. The estimated cost is $30,000. J. C. McCaddon is City Clk. Noted Sept. 2.

Elkhorn, Kan.—An election will be held to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a water system.

Hillsboro, Kan.—The city contemplates constructing water and sewer systems at an estimated cost of $30,000. H. H. Beck is Mayor.

Russell, Kan.—Plans are being prepared for the construction of about two miles of water mains. W. B. Rollins & Co., Midland Bldg., Kansas City, Mo., is Engr.

Spearville, Kan.—Bids will be received until Sept. 15 by R. E. Wood, City Clk., for constructing a water system. Rollins & Co., Kansas City, Mo., is Engr. Noted Aug. 26.

Bayard, Neb.—At a recent election the citizens voted in favor of issuing bonds, the proceeds of which will be used for the construction of a municipal water system.

Hastings, Neb.—Bids will be received until 2 p.m., Sept. 13, by W. S. Watson, Comr. of Light and Water, for driving 24-in. wells about 130 ft. deep and for furnishing a 24-in. motor driven centrifugal turbine pump.

✚**Syracuse, Neb.**—Contracts have been awarded to the CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $3990, for water tower and to the ELKHORN CONSTRUCTION CO., Fremont, at $3788, for water mains.

Aberdeen, S. D.—About 500 water meters will be purchased by the City Commissioners.

Gayville, S. D.—Bonds have been voted by the citizens. The proceeds will be used for the construction of a water system.

Sioux Falls, S. D.—Water service connection will be constructed in Spring Ave. from Third St. to 18th St. Walter C. Leyse is City Audr.

Hankinson, N. D.—While plans are being prepared for the construction of a water system, the construction will not take place for some time to come.

Raggs, Wyo.—Plans are being prepared for the construction of a water system and an electric-light system by E. Carlisle, Cheyenne, Wyo.

✚St. Joseph, Mo.—(Official)—The contract has been awarded to ST. JOSEPH WATER CO., St. Joseph, for making extensions to the water system. Noted Aug. 26.

Beaumont, Tex.—All bids received for the improvement of the water system have been rejected. New bids will soon be received. Noted Aug. 5.

Longview, Tex.—Permission has been granted to the city by the State Board of Water Engineers to divert 1,000,000 gal. of water daily from the Sabine River to supply the local water system. A pumping plant will be installed. Noted Mar. 14, 1914.

Mineola, Tex.—The Mineola Ice, Light & Water Co. has been purchased by the city. Improvements, estimated to cost $25,000, will be made. Noted May 6.

Grove, Okla.—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the extension of the water system. Noted Aug. 5.

Jones, Okla.—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the construction of water and electric-light systems. The Benham Engineering Co., Concord Bldg., Oklahoma, is Engr. Noted July 8.

Kusa, Okla.—(Official)—We have been advised that the town will not construct a water system before 1916. Noted Aug. 26.

Marshall, Okla.—Bids will be received about Sept. 15 by the City Clerk for constructing a water system. The estimated cost is $25,000. The Benham Engineering Co., Oklahoma City, is Engr. Noted Aug. 5.

Pueblo, Colo.—Press reports state that bids will soon be received for the construction of a dam across the Arkansas River. The Pueblo Water-Works No. 2 is in charge.

Platteville, Colo.—An election will be held Sept. 14 to vote on the question of issuing $30,000 in bonds, the proceeds of which will be used for the construction of a water system.

Hailey, Idaho—Plans are being prepared, according to press reports, for the construction of a concrete dam in Dry Creek. The estimated cost is $100,000. The Blaine County Investment Co. is the owner.

✚St. Maries, Idaho—(Official)—The contract has been awarded to W. L. GEIST, St. Maries, at $29,110, for laying water mains and for constructing a concrete dam. Other bidders were: James C. Broad, $30,065; Carlson, Chindahl & Anderson, $29,394; W. G. Mulligan Co., $33,212; Two Miracle Concrete Corp., $31,172; P. Agrios, $33,831; Security Bridge Co., $29,085 and C. A. Burnette, $31,917. Charles R. Schulte is Clk. Noted Aug. 19.

Myton, Utah—(Correction)—Bids will be received until 1 p.m., Sept. 20, by R. B. Croix, Town Clk., for constructing a water system. Noted Sept. 2.

Newport, Wash.—The city plans to construct a 10-mile pipe line from Spencer Creek to Newport. The estimated cost is $24,000.

Bend, Ore.—The Bend Water, Light & Power Co. contemplates making extensions to its water system.

Milwaukee, Ore.—Bonds for $25,000 have been voted by the citizens, the proceeds of which will be used for the completion of the municipal water system. Noted July 29.

Portland, Ore.—(Official)—We have been advised that the city does not contemplate the construction of a pumping station, reservoirs and laying water mains in the Linnton Addition. D. Clarke is Engr. Water Bureau. Noted Aug. 19.

Los Angeles, Calif.—Arrangements have been made by the Public Service Commission for the purchase of the Union Hollywood Water Co.'s system. The estimated cost is $575,000.

Cochrane, Ont.—Bids will soon be received for the extension of the water system. H. J. Brown is City Clk.

Listowel, Ont.—A water system will be constructed at an estimated cost of $5400. W. Bright is Town Clk.

✚Drumheller, Alta.—The contract for constructing a water system has been awarded to E. R. LEVERTON, Calgary, at $5170.

New Westminister, B. C.—Extensions will be made to the upper reservoirs. The estimated cost is $15,000. J. W. Blackman is Engr.

Prince George, B. C.—An expenditure of $80,000 will be made for the improvement of the water system.

SEWERS

Peak Island, Maine—(Portland post office)—The State Board of Health has instructed the city to install a complete sanitary sewer system.

Rochester, N. H.—(Official)—Bids were received Aug. 31 by the Water and Sewer Committee for the construction of approximately 8100 ft. of 8- and 12-in. pipe sewers as follows: Henry Spinach Construction Co., $13,948; M. A. Gammins, $13,844; Susi & Williams, $10,894; Sorells & Prohenno, $11,737; W. M. Ames, $10,525; William J. Donovan, $13,102; Bull & Cassidy, $16,781; L. E. Scinton, $12,455; C. W. Foss Co., $8,253; M. Russo & Co., $14,465; Fred W. Stowers, $13,357; M. De Sisto, $9,674; Luchini & Mangari, $14,061; A. Michelini, $16,521; Mayo Construction Co., $13,637; Sacco & Wood, $10,347. F. Hussey is Clk. of the Water and Sewer Com. Noted Aug. 19.

✚Boston, Mass.—The contract for the construction of sewers in Albany and Dover St. and Massachusetts Ave. has been awarded to WILLIAM BARRETT & CO., at $36,415.

Boston, Mass.—Bids will be received until Sept. 17 by the Board of Public Works for the construction of sewers and drains in Lanark Rd. and Telford St., Brighton District. Edward F. Murphy is Comr. of Pub. Wks.

Lawrence, Mass.—(Official)—The city will construct sewers by day labor. The estimated cost is $30,000. Noted Sept. 2.

Hamden, Conn.—Preliminary plans have been prepared by Clyde Potts, Engr., 30 Church St., New York, N. Y., for the construction of a sewer system and a sewage-disposal plant. The estimated cost is $246,000. Noted May 13.

Stratford, Conn.—The city contemplates the construction of a sewer system.

Albany, N. Y.—The city contemplates the construction of a new interceptor sewer which will extend from the main intercepting sewer in Front St. through North Jay St., South Ave., Romeyn St., Myers Alley, Park Pl. to Union St. and thence to connections with prospective sewers.

Brookport, N. Y.—All bids received Aug. 25 by F. E. Reynolds, Village Clk., for the construction of a sewage-disposal plant have been rejected. New bids will be received. The estimated cost is $25,000. Charles C. Hopkins, Culter Bldg., Rochester, is Engr. Noted Aug. 19.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Sept. 1 by L. H. Pounds, Borough Pres., for the construction of sewer basins in (a) Glenmore and Railroad Ave., Pine and Hemlock St., (b) New Jersey and Hegeman Ave., (c) William and Vienna Ave., (d) West St. as follows: Frank Merridino, 556A 17th St., Brooklyn, (a) 84%, (b) 98%, (c) 84.91%, (d) 95%; Pellegrino Construction Co., 6802 New Utrecht Ave., Brooklyn, (a) 109.45%, (b) 96.95%, (c) 112.7%, (d) 119%; Joseph Jennings, (a) 130%, (b) 130%, (c) 130%, (d) 140%; Murphy Bros., 25th St. and Cropsy Ave., Brooklyn, (a) 91%, (b) 88%, (c) 84%; S. Paconi, (b) 118%, (c) 125%, (d) 135%. Noted Aug. 26.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres., until 11 a.m., Sept. 15, for constructing a sewer in East Eighth St., from Ave. L to Ave. M.

✚New York, N. Y.—(Borough of Manhattan)—(Official)—Contracts for sewer construction have been awarded to CASPERINE & De BLASIO, 357 East 116th St., New York, at $4457, First Ave. sewer, and to the H. E. FOX CONSTRUCTION CO., 81 East 125th St., New York, at $32,040, for outlet sewer at Dyckman St. and the Hudson River, including the construction of a submerged outlet and screening chamber. Noted Aug. 26.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received Sept. 1 by Maurice E. Connelly, Borough Pres., for the construction of sewers and appurtenances in (a) Maspeth Ave. from Newton Creek to Rust St., Rust, Creek and Clark St., Second Ward, (b) Grand St., Second Ward, (c) Perry Ave. from Clark to Maurice Ave. and in Maurice Ave. from Perry to Hull Ave., Second Ward, as follows: Peace Bros., (a) $141,315, (b) $87,625, (c) $113,410; F. B. Smith, (a) $111,750, (b) $78, 775, (c) $94,805; Kingsbridge Contracting Co., 30 East 42d St., New York, (a) $81,542, (b) $74,198, (c) $92,761; Ward & Tully, Inc., (a) $105,770, (b) $73,655, (c) $94,199; Joseph L. Sigretto, (a) $116,900, (b) $75,254, (c) $83,000; U. S. Drainage & Irrigation Co., (a) $106,915, (b) $84,493, (c) $92,739; A. L. Guidone & Son, (a) $110,442, (c) $87,933; J. F. Cogan Co., (a) $105,747, (b) $86,180, (c) $92,662; J. E. Consalus Co., (a) $107,169; Clancy & Van Alst, 401 Broadway, Long Island City, (b) $73,655, (c) $85,568; Murphy Bros., (b) $96,600, (c) $83,955; Lawrence Contracting Co., (c) $89,730; Rosenthal Engineering & Contracting Co., (c) $93,404; Anabell Construction Co., (c) $90,548; William M. Stanton, (c) $78,837; Leo E. Kelly, (c) $84,056. Noted Aug. 26.

Newark, N. J.—(Official)—Bids were received Aug. 31 by the Passaic Valley Sewerage Commissioners for the construction of the superstructure of the Newark Bay pumping station, Section No. 5 as follows: J. H. Steele & Son, Paterson, N. J., $149,997; Cramp & Co., New York, N. Y., $148,490; Becker Construction Co.,Newark, N. J., $145,990; Joseph Jewkes & Sons Co., Jersey City, N. J., $143,250; Frederick Kilgus, Inc., Newark, N. J., $140,400; E. M. Waldron & Co., Newark, N. J., $140,000; Simon Russek, Inc., New York, N. Y., $139,900; Connors Bros. Co., New York, N. Y., $139,400; Cauldwell-Wingate & Co., New York, N. Y., $137,709; E. M. Waldron Inc., Newark, N. J., $128,000; D. W. McGee Construction Co., Newark, N. J., $128,000; D. W. McGee Construction Co., Newark, N. J., $123,383; A. L. Guidone & Sons, Inc., New York, N. Y., $122,330; Essex Construction Co., Newark, N. J., $114,289; William G. Sharwell & Co., Newark, N. J., $109,638. Noted July 8.

Riverside, N. J.—The city contemplates the construction of a sanitary sewer system and a sewage-disposal plant. Joseph H. Weston is Clk.

Verona, N. J.—Bids will be received until Sept. 25 by the city for the construction of a sewer system and a sewage-disposal plant. Robert Chesney is City Clk. Noted May 20.

Allentown, Penn.—The City Council contemplates the construction of a sewer system. Charles D. Weirbach is City Engr.

Lebanon, Penn.—The lowest bid received for the construction of a sewage-disposal plant was that of the Pitt Co., Lebanon. The estimated cost is $50,000. T. R. Crowell is City Engr. Noted Aug. 19.

✚Sellersville, Penn.—(Official)—The contract for the construction of approximately 22,640 ft. of 8-, 10- and 12-in. sewers has been awarded to DWYER & CO., 1524 Chestnut St., Philadelphia, at $20,620. Other bids were: Cantrell Construction Co., Philadelphia, $25,970; G. W. Ensign, Harrisburg, $26,690; Antonio Celentino, Trenton, N. J., $27,830; J. M. Hamilton, Jr., Oakmont, $28,525; James Ferry & Sons, Baltimore, Md., $29,625. Noted Aug. 19.

✚West Chester, Penn.—(Official)—The contract for the construction of a sewage-disposal plant and 1500 ft. c.-i. force mains has been awarded to M. & T. E. FARRELL, West Chester, at $6290. Other bids were: Manwaring & Cummins, Philadelphia, $6997; Lewis & Roth, Philadelphia, $7688; Kelley-McFeeley Co., Camden, N. J., $6638. Noted Aug. 19.

✚Wilkinsburg, Penn.—The contract for the construction of storm and sanitary sewers in portions of Wood St. has been awarded to A .V. PURNELL, 507 Jackson St., Allegheny, at $38,890.

✚**Farmville, Va.**—The contract for the construction of a sewer system has been awarded to the J. B. McCRARY CO., Atlanta, Ga.

Richmond, Va.—The city contemplates the construction of a sewer system in Ginter Park with outlets into Griffin and Shoekee Creek. M. O. Hankins is Mayor.

High Point, N. C.—The city contemplates the construction of an outfall sewer system. The estimated cost is $5000.

✚**West Asheville, N. C.**—(Asheville post-office)—The contract for the construction of approximately one mile of sewers has been awarded to REED & WELLS, Asheville.

Winston-Salem, N. C.—Plans are being prepared for the construction of a sewer system. The estimated cost is $8000.

Macon, Ga.—Plans have been prepared by J. J. Gaillard, City Engr., for the construction of sewers to take the place of the old Vineville branch. Noted Sept. 2.

Daytona, Fla.—Bids will soon be received for the sale of $150,000 in bonds, the proceds of which will be used for sewer construction.

Henderson, Tenn.—Bids will soon be received by J. I. Galbraith, Mayor for the construction of a sewer system. The estimated cost is $14,000.

✚**Canton, Ohio**—The contract for the construction of the Shrivers Run Sewer has been awarded to NEWTON E. WISE, Canton, at $32,297.

✚**Chardon, Ohio**—Contracts for sewer construction have been awarded to the KENT CONSTRUCTION CO., at $12,346, sewage-disposal plant; J. B. SHEETS & CO., Pittsburgh, Penn., at $32,447, sewer system. Noted Aug. 12.

✚**Cincinnati, Ohio**—The contract for the construction of sewers in Lossing, Randolph and Duluth St. has been awarded to THOMAS P. STRACK, at $4377. Noted July 22.

Cleveland, Ohio—Bids will be received until noon, Sept. 15, by the Commissioner of Purchases and Supplies for the construction of two reinforced-concrete tanks and appurtenances for the sewage treatment works. Robert Hoffman is City Engr.

✚**Columbus, Ohio**—Contracts for sewer construction have been awarded by the Board of Control as follows: Jackson and Cherry St. sewer to RUSSELL & JENNISON CO., at $34,086; and $8998 respectively; City Blvd. sewer to H. P. STREICHER CO., at $26,332; Monroe St. sewer to HARRIS & TANSEY, at $15,735; Camden St. sewer to the ASPHALT BLOCK PAVEMENT CO., at $10,693; Ogden Ave. sewer to McKINNEY BROS., at $21,663. Noted Aug. 5.

Mansfield, Ohio—(Official)—The contract for the construction of sewers in various streets will be awarded about Nov. 1. The estimated cost is $6500. W. J. Hazeltine is City Engr. Noted Aug. 26.

Portsmouth, Ohio—(Official)—Bids will not be received this year for the construction of sewers in the northern and eastern sections of the city extending into Lawsons Run. The estimated cost is $90,000 and $35,000 respectively. Noted Aug. 26.

Springfield, Ohio—The City Commission will issue $6271 in bonds for the construction of storm water sewers in Lowry Ave. from State to Clark St.

Hammond, Ind.—All bids received for the construction of the Van Buren St. sewer have been rejected. New bids will be received by the Board of Public Works.

Kendallville, Ind.—The city contemplates the construction of sewers in the southern and western sections of the city. The estimated cost is $18,000. Willis Sawyer is City Engr.

Grand Rapids, Mich.—Preliminary plans have been prepared for the construction of a sewage-disposal plant. The estimated cost is $10,000. J. R. Rumsey, Grand Rapids, is Engr.

✚**Hastings, Mich.**—The contract for the construction of an Imhoff tank has been awarded to J. H. SULLIVAN, Grand Rapids.

Reed City, Mich.—Bids will be received by the Sewer Committee until 3 p.m., Sept. 14, for the construction of approximately 19,500 ft. of 6- to 18-in. pipe sewers with manholes, reinforced-concrete settling tank, sludge filter and 3180 ft. of 8- to 18-in. storm sewers with inlet basins and connections. W. G. Potter, 1201 Hartman Bldg., Chicago, Ill., is Engr.

Aurora, Ill.—Bids will soon be received for the construction of a sewer system in the northeastern section of the city. The estimated cost is $12,700. M. Tarble is Engr.

Chicago, Ill.—Bids will be received until 11 a.m., Sept. 13, by the Board of Local Improvements for the construction of sewers in various streets. Edward J. Glackin is Pres., Bd. Local Impv. Noted Aug. 19.

✚**Quincy, Ill.**—The contract for the construction of a sanitary sewer in the northeasternly section of the city has been awarded to HENRY REES, Quincy, at $14,549. Noted June 24.

Kenosha, Wis.—Bids will be received by the Street Assessment Committee until 2 p.m., Sept. 17, for the construction of sewers in various streets. Noted Aug. 19.

Madison, Wis.—Plans have been prepared by E. E. Parker, City Engr., for improvements to the sewage-disposal plant including new force main, sub-pumping station in the Ninth Ward and intercepting sewer in Murray St. The estimated cost is $125,000.

Racine, Wis.—No bids were received by the Board of Public Works for the construction of sewers in La Fayette Ave. The work will be done by city forces. P. H. Connolly is City Engr.

Randolph, Wis.—(Official)—Bids will be received about Nov. 1 for the construction of a sanitary sewer system. W. S. Shields Co., Chicago, Ill., is Engr. Noted Sept. 2.

Superior, Wis.—The lowest bid submitted for the construction of a main sewer in West 13th St. and Cadott Ave. was that of the Pastoret Construction Co., at $6159. Noted Aug. 26.

✚**Ft. Dodge, Iowa**—The contract for the construction of sewers in District Nos. 1, 2 and 4 has been awarded to BENSON & REED.

Sioux City, Iowa—Bids will be received until Sept. 13 by Paul J. Wells, City Clk., for the construction of approximately 15,500 ft. of 8-in. pipe sewers and 43 manholes. T. H. Johnson is City Engr. Noted Aug. 26.

Waterloo, Iowa—Plans have been prepared by C. A. Roby, City Engr., and submitted to the City Council, for the construction of sewers in the Westfield, Galloway, Hagerman and Downing additions. The estimated cost is $61,369. Burns & McDonnell, Kansas City, Mo., is Consult. Engr. Noted July 8.

Excelsior, Minn.—Plans are being prepared for the construction of a storm sewer system. Abbott & Budd, Kasota Bldg., Minneapolis, is Engr.

Herman, Minn.—Plans have been prepared by J. E. Cole, Engr., for the construction of a sewer system. F. C. Anderson is Village Recdr.

Hillsboro, Kan.—The city contemplates the construction of a sewer system. H. H. Beck is Mayor.

✚**Topeka, Kan.**—The contract for the construction of sanitary sewers in District No. 45 has been awarded to JOHN S. HARRINGTON, 2519 West 18th St., Topeka, at $4309. Noted Aug. 5.

Grand Island, Neb.—Bids will be received about Sept. 20 for the construction of storm sewers. The estimated cost is $100,000. William Grant, Lincoln, is Consult. Engr., and H. E. Clifford is City Clk. Noted Sept. 2.

✚**Bozeman, Mont.** — (Official)—The contract for the construction of storm sewers in District Nos. 98 and 99 has been awarded to the WARREN CONSTRUCTION CO., Bozeman. Noted Aug. 12.

Whitehall, Mont.—Bids will be received Sept. 23 instead of Sept. 18 by F. E. McCall, Clk., for the construction of a sewer system and an Imhoff disposal tank. George E. Baker is Consult. Engr. Noted Sept. 2.

✚★**Dallas, Tex.**—(Official)—Contracts for sewer construction have been awarded as follows: Contract No. 5, North Interceptor, Contract No. 7, disposal works including 36-in. force main from Station No. 5 plus 88.7 to disposal works to BAILEY, REEDER & CO., Mobile, Ala., at $80,708 and $204,976 respectively; Contract No. 6, pumping station, 36-in. force main and Oak Cliff trunk line across the Trinity River to the ROACH-MANIGAN PAVING CO., Dallas, at $98,434. Noted July 29 and Sept. 2.

Cushing, Okla.—An election will soon be held to vote on the question of issuing $30,000 in bonds. The proceeds will be used for the construction of a main intercepting sewer system. The Benham Engineering Co., Oklahoma City, is Engr.

Marlow, Okla.—An election will be held Sept. 16 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for the construction of a main sanitary sewer system. The Benham Engineering Co., Concord Bldg., Oklahoma City, will prepare plans and supervise the construction work.

✚**Sand Springs, Okla.**—(Official)—The contract for the construction of approximately 1½ miles of storm sewers has been awarded to the CONNELLY CONSTRUCTION CO., El Reno, at $5025. Noted Aug. 5.

Bonners Ferry, Idaho—Preliminary plans are being prepared by Sawyer Bros., Spokane, Wash., for the construction of a sewer system. The estimated cost is $20,000. Noted Sept. 2.

Mountain Home, Idaho—It is reported that plans are being prepared for the construction of sewers in two districts. The estimated cost is $10,000. F. G. Ticknor is Town Clk.

✚**Anacortes, Wash.**—The contract for the construction of the O St. sewer has been awarded to NELS ERICKSON, at $5012.

Spokane, Wash.—The City Council is considering the forming of a new sewer district in the northern section of the city and constructing sewers. The estimated cost is $70,000.

Forest Grove, Ore.—Bids will be received until 8 p.m., Sept. 21, by M. R. Markham, City Recdr., for the construction of a sanitary sewer system and a sewage-disposal plant. J. B. & R. E. Koon, Portland, is Consult. Engr. Noted Aug. 19.

Portland, Ore.—(Official)—Bids will be received until Sept. 14 by A. L. Barbour, City Audr., for the construction of sewers in Water and Mill St. The estimated cost is $15,700. Philip H. Dater is City Engr. Noted Sept. 2.

Marysville, Calif.—At a recent election the citizens voted to issue $18,000 in bonds, the proceeds of which will be used for the construction of a sewer system in the Ellis Lake District. Noted Aug. 5.

Cochrane, Ont.—Bids will soon be received for the construction of a sewer system. H. J. Brown is City Clk.

Ft. Frances, Ont.—The city contemplates the construction of sewers in Sinclair, Victoria and Armit St. J. W. Walker is Clk.

Owen Sound, Ont.—The city will construct sewers in Fourth and Eighth Ave. Charles Gordon is Clk.

Toronto, Ont.—Bids will be received until Sept. 14 by the Board of Control for the construction of sewers in various streets. R. C. Harris is Comr. of the Pub. Wks.

GARBAGE

Springfield, Mass.—Plans have been prepared for the construction of an incinerator at the South End yards. The estimated cost is $8000.

Moline, Ill.—The citizens contemplate installing an incinerator A. Stouffer is Comr.

Duluth, Minn.—The city will construct an incinerator at an estimated cost of $8360. Noted May 13.

Salina, Kan.—The installation of an incinerator is under consideration by the citizens.

✚**Hillsboro, Tex.**—The City Council has awarded a contract to J. W. STOKES, Waxahachie, at $4760, for constructing a new garbage crematory. Noted Apr. 22.

STREETS AND ROADS

Boston, Mass.—The contract for the construction of 11,000 lin.ft. of road in Northampton has been awarded to the PHILADELPHIA CONSTRUCTION CO., Melrose, at $18,572. Noted Aug. 5.

Franklin, Mass.—According to press reports plans are being considered for widening West Central St. between Union St. and the State Highway. Estimated cost, $4000.

Danielson, Conn.—The contract for the construction of approximately 2590 ft. of amiesite pavement has been awarded to the CONNECTICUT & RHODE ISLAND CO., at $8825.

Albany, N. Y.—(Official)—Contracts have been awarded for the repair of highways in various counties as follows: Repair Contract No. 839, Road No. 463, Herkimer County: J. J. MALLOY, Schenectady, $18,797; Repair Contract No. 852, Road No. 359, Herkimer County: JOHN P. DUGAN & CO., Amsterdam, $10,360; Repair Contract No. 848, Road No. 71, Oneida County: HARRY W. ROBERTS & CO., Utica, $13,649; Repair Contract No. 841, Road No. 733, St. Lawrence County: ARTHUR F. McCONVILLE, Ogdensburg, $20,551; Repair Contract No. 844, Road No. 640, Schenectady County: J. J. MALLOY, Schenectady, $8706; Repair Contract No. 837, Road No. 795, 823, 824, Sullivan County: GEORGE MESLER Liberty, $4518; Repair Contract No. 843, Road No. 5223, Sullivan County: GEORGE MESLER, Liberty, $42,327; Repair Contract No. 848, Road No. 503, Westchester County: MALLOY & MURRAY CONTRACTING CO., Yonkers, $96,243; Repair Contract No. 847, Road No. 19, Westchester County: JAMES GAROFANO & SON, INC., Mt. Vernon, $11,359. List of bidders noted Sept. 2.

Albany, N. Y.—(Official)—Contracts have been awarded for the construction of highways in various counties as follows: Road No. 5588, Greene County, 3.95 miles: JAMES M. HAMILTON & CO., Gardner, $98,639; Road No. 5579, Herkimer County, 6.55 miles: NEWPORT CONSTRUCTION CO., Herkimer, $63,077; Road No. 5584, Herkimer County, 4.21 miles: JOSEPH McCORMICK, East Providence, R. I., $46,423; Road No. 773, Niagara County, 2.38 miles: F. J. MUNN CONTRACTING CO., Buffalo, $23,342; Road No. 799, Niagara County, 4.21 miles: ARTHUR F. McCONVILLE, Ogdensburg, $53,156; Road No. 1315, Niagara County, 8 miles: JOSEPH BRUMVER, Buffalo, $97,340; Road No. 1153, Niagara County, 1.25 miles: GREENFIELD CONSTRUCTION CO., Hornell, $69,644; Road No. 5408, Oswego County, 0.36 mile: OSWEGO CONSTRUCTION CO., INC., Futlon, $16,490; Road No. 817, Saratoga County, 3.57 miles: WILLIAM G. FOX, Saratoga Springs, $38,158; Road No. 1320, Schuyler County, 2.75 miles: PATRICK D. CONLEY, Ithaca, $25,380; Road No. 5575, Schuyler and Tompkins Counties, 4.12 miles: PATRICK D. CONLEY, Ithaca, $35,160; Road No. 5577, Schoharie County, 7.96 miles: WEED & WALSH, Mechanicsville, $91,046; Road No. 5253-E, Steuben County, 5.52 miles: KENNEDY CONSTRUCTION CO., Albany, $38,796; Road No. 1076, Tioga County, 4.29 miles: DANA W. ROBBINS CO., INC., New York, $35,354; Road No. 1077, Tioga County, 4.72 miles: LANE CONSTRUCTION CORPORATION, Meriden, Conn., $36,148; Road No. 1109, Washington County, 2.06 miles: W. L. SHERRILL, Hudson Falls, $16,975; Road No. 5578, Washington County, 1.89 miles: WILLIAM G. FOX, Saratoga Springs, $29,582; Road No. 1306, Westchester County, 5.72 miles: PIERSON ENGINEERING & CONSTRUCTION CO., Hartford, Conn., $66,010; Road No. 1307, Westchester County, 1.89 miles: JAMES CLASIA, Mt. Vernon, $22,231; Road No. 1308, Westchester County, 2.15 miles: JAMES GAROFANO & SON, Mt. Vernon, $24,738; Road No. 1309, Westchester County, 6.63 miles: HENRY CLINTON, Poughkeepsie, $67,954; Road No. 1323, Westchester County, 4.62 miles: FRANK G. FOWLER CONSTRUCTION CO., Mt. Kisco, $49,183: Road No. 1325, Westchester County, 2.81 miles: H. B. SPROUL CONSTRUCTION CO., INC., Peekskill, $28,858. List of bidders noted Sept. 2.

Medina, N. Y.—Press reports state that an appropriation of $22,500 has been made for paving West Central St. with asphalt block.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres., Borough Hall, until 11 a.m., Sept. 15, for the grading, paving, etc., of various streets in the borough.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres., Municipal Bldg., until 2 p.m., Sept. 15, for regulating, grading and paving various streets.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received by Marcus M. Marks, Borough Pres., for regulating, grading, curbing and laying sidewalks (a) Madison St. from Roosevelt St. to New Chambers St., (b) Broadway from 47th St. to Columbus Circle, 48th St. from Broadway to Eighth Ave., (c) 49th St. from Sixth to Seventh Ave. and from Eighth to Ninth Ave., (d) 59th St. from Madison Ave. to a point 238 ft. east of the east curb line, (e) 212th St. from Harlem River to the east side of 10th Ave., (f) Exterior St. from 76th to 77th St., (g) 104th St. from Central Park West to Manhattan Ave. The lowest bids submitted for the following were: (a) (f) W. J. Fitzgerald, 547 West 54th St., $3185 and $4384; (b) Asphalt Construction Co., 208 Broadway, $8171; (c) Aztec Asphalt Co., 90 West St., $7863; (d) (g) Sicilian Asphalt Co., 41 Park Row, $7510 and $3057; (e) Barber Asphalt Co., Woolworth Bldg., $8171. Noted Aug. 26.

Phelps, N. Y.—The contract for paving Church St. with brick has been awarded to LAKE SHORE CONSTRUCTION & SUPPLY CO., at $6443.

Quogue, N. Y.—The contract for the construction of the Quogue Rd. from Quogue to Riverhead has been awarded to the PECONIC CONSTRUCTION CO., Riverhead, at $11,000.

Troy, N. Y.—Contracts have been awarded for grading and improving the alley between Fourth and Fifth Ave. and 13th and 14th St.; laying sidewalks, curbing and drains in 12th St. and Seventh and Eighth Ave. to SHEKAN & HEISLER, at $791 and $4942 respectively; grading Second St. and Fifth and Sixth Ave. and laying a short sewer in Sixth Ave. to D. KNOWER & CO., at $2491.

Yonkers, N. Y.—The O'Rourke Construction Co., 12 North Broadway, at $25,887, submitted the lowest bid for paving with macadam a portion of Park Ave., and Kearns & Hart, 280 Neperhan Ave., at $17,081, for Palisade Ave.

Bayonne, N. J.—The City Commissioners have passed an ordinance authorizing the improvement of eight streets.

Bridgeton, N. J.—The City Council plans to pave a number of streets of the city.

Garfield, N. J.—A contract for the improvement of Gaston Ave., Morrell Pl. and Irving Pl. has been awarded to the DI NAPOLI & TORELLI CONSTRUCTION CO., Hackensack, at $10,718.

Irvington, N. J.—Bids were received by the Board of Chosen Freeholders, Newark, for improving Lyon Ave. as follows: Glenfield Construction Co., Newark, $58,061; Standard Bitulithic Co., $63,464; Newark Paving Co., $64,769; Van Keuren & Son, $68,811. Noted Aug. 12.

Newark, N. J.—The Board of Street and Water Commissioners plans to pave Chelsea Ave. with asphalt.

Newark, N. J.—Bonds for $300,000 have been sold. The proceeds will be used for paving a number of streets.

New Brunswick, N. J.—Bids were received Aug. 23 by the Board of Chosen Freeholders of Middlesex County for constructing the South Amboy-Keyport Rd., from the South Amboy City line to the Monmouth County line, in two sections: (a) from South Amboy line to Morgan Station; (b) from Morgan Station to Monmouth County line as follows: (a) T. H. Riddle, New Brunswick, $37,949; Meagher & Smith, Perth Amboy, $39,704; Abraham Kelin, New Brunswick, $41,121; Newark Paving Co., Newark, $42,148; (b) A. Jelin, $40,886; T. F. Dunigan, $42,838; Franklin Construction Co., $43,651; Utility Construction Co., New Brunswick, $44,304. Alvin B. Fox, Perth Amboy, is County Engr. Noted Aug. 12.

Pittsburgh, Penn.—(Official)—Bids will be received by Hyatt M. Cribbs, County Controller, until 10 a.m., Sept. 23, for improving the Painters Run Rd.

York, Penn.—A contract for paving with asphalt North Newberry, West Poplar and West Philadelphia St. has been warded to the GENERAL SUPPLY & CONSTRUCTION CO., York, at $21,275.

Wilmington, Del.—The contract for the construction of the Du Pont Blvd. between Selbyville and Frankford has been awarded to the McNERNEY CO., Canton, Penn., at $46,817. Other bidders were: E. C. Evans, Philadelphia, Penn., $54,095; Utility Construction Co., New Brunswick, N. J., $48,847; Juniata Construction Co., $46,987. Noted June 10.

Baltimore, Md.—The Board of Estimate plans to improve the Alamede Rd. between Harford Rd. and the Garrett property. The estimated cost is $22,900.

Eastville, Va.—Bids will be received until Sept. 27 by the Eastville District Road Board of Northampton County for the construction of 55 miles of sand clay roads. Noted June 3.

Hinton, W. Va.—At a recent election the citizens of Summers County, Talcott District, voted in favor of the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing roads. Noted Aug. 12.

Huntington, W. Va.—Contracts have been awarded for constructing eight miles of the Kanawha and James River Turnpike and one mile of the Harveytown and Wayne County Pike to the BRUBAKER CONSTRUCTION CO., Huntington; four miles of the Hamlin Pike and one mile of the Ohio River Rd. to GEORGE HINKLE. Noted July 15.

Moundsville, W. Va.—A contract for paving Fifth St. between Jefferson and Grant Ave. has been awarded to R. J. McFADDEN. Noted July 22.

Welch, W. Va.—A contract for the construction of 34 miles of roads has been awarded to S. G. WALKER & CO. Noted July 29.

Farmville, N. C.—An election will be held in Pitt County, Farmville Township, Sept. 21, to vote on the question of issuing $50,000 in bonds. The proceeds will be used for improving various roads.

Hickory, N. C.—According to press reports the city will construct 3000 yd. of concrete sidewalks.

Mt. Airy, N. C.—At a recent election the citizens voted in favor of the question of issuing $30,000 in bonds. The proceeds will be used for the construction of graded sand clay roads in Westfield and Shoal Townships.

Pittsboro, N. C.—Bonds for $20,000 have been sold. The proceeds will be used for improving the roads in Haw River Township. Noted Apr. 8.

Raleigh, N. C.—The city plans an expenditure of $10,000 for the construction of sidewalks.

Clearwater, Fla.—The Commissioners of Pinellas County have awarded the contract for the construction of 73.34 miles of brick roads to the EDWARDS CONSTRUCTION CO., Tampa.

De Land, Fla.—According to press reports an election will soon be held in New Smyrna District to vote on the question of issuing $250,000 in bonds. The proceeds will be used for constructing roads.

Miami, Fla.—Press reports state that the City Council has authorized paving with asphalt various streets and avenues of the city.

Pensacola, Fla.—Bids will soon be received for paving with wood block three streets around the Pensacola Hospital. L. E. Thornton is City Engr.

Birmingham, Ala.—The Board of Commissioners plans to pave Clairmont and 10th Ave., 39th, 40th, 41st and 42d St. The estimated cost is $50,000. J. Kendrick is City Engr.

Monroe, La.—According to press reports the city plans to gravel several streets.

Port Allen, La.—A contract for the construction of 27 miles of road has been awarded to S. A. GANO, Jackson, Miss., at $37,735.

Winnfield, La.—Bonds for $50,000 have been voted. The proceeds will be used for constructing roads in Winn Parish.

Bluff City, Tenn.—Bids will be received until Sept. 29 by W. D. Lyons, Chn., County Road Comrs., for grading, draining and macadamizing pike roads.

Bristol, Tenn.—The Commissioners of Sullivan County plan to improve three miles of the Bristol-Kingsport-Knoxville Pike between Eden Ridge and Kingsport. Bonds for $100,000 were recently voted for highway improvements. Noted June 3.

Dayton, Tenn.—The Commissioners of Rhea County plan an expenditure of $500,000 for the construction of highways. Part of this amount will be used for constructing about 32 miles of the Dixie Highway. J. H. Hoskins is Ch. Engr., County Highway Comrs.

Sweetwater, Tenn.—An election will be held Sept. 30 to vote on the question of issuing $5000 in bonds, the proceeds of which will be used for improving a number of streets.

Albany, Ky.—The citizens have voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for the construction of the Dixie Highway through Clinton County.

Jamestown, Ky.—At an election held Aug. 21 the citizens voted in favor of the question of issuing $100,000 in bonds. The proceeds will be used for constructing roads.

✚Madisonville, Ky.—A contract for the construction of one mile of macadam road has been awarded to N. E STONE, Madisonville, at $5413

✚Vanceburg, Ky.—A contract has been awarded to W. T. COOPER & CO., at $25,121, for grading and shaping the river road.

Bexley, Ohio—Bonds for $124,000 have been sold. The proceeds will be used for improving a number of streets. Noted July 22.

Bowling Green, Ohio—Bonds for $26,000 have been sold. The proceeds will be used for improving the roads in Wood County.

Dayton, Ohio—Bids will be received until noon, Sept. 21, by Walter H. Aszling, Clk., Bd. of County Comrs., for the purchase of $30,000 in bonds, the proceeds of which will be used for improving a number of highways.

Fostoria, Ohio—Bonds for $13,290 have been sold. The proceeds will be used for improving a number of streets of the city.

✚Lima, Ohio—A contract for paving State St. between Cole St. and Woodlawn Ave. has been awarded to HENRY S. ENCK, at $8614.

✚Marion, Ohio—Contracts have been awarded for paving the Marion-Bucyrus Pike to P. DRAKE & SONS at $20,227; resurfacing the main road from Prospect to the Delaware County line to S. M. WOOLEY, at $2828.

✚Miamsburg, Ohio—The contract for paving North Main St. with Carlisle brick block has been awarded to BIGLER BROS., Middletown, at $19,599.

✚Middeltown, Ohio—Contracts have been awarded for paving First St. with asphalt to the ANDREWS ASPHALT CO., Hamilton, at $15.869; constructing concrete pavement on Woodlawn Ave. to STRODTBECK BROS., Middletown, at $21,860.

New Washington, Ohio—Bonds for $11,000 have been sold. The proceeds will be used for improving a number of streets.

✚Rawson, Ohio—C. B. HALL & SON, at $9000, has been awarded the contract for paving Main St.

✚Toledo, Ohio—Contracts have been awarded for paving seven miles of the Mominee Road in Jerusalem and Oregon Township to GARRIGAN BROS., at $67,988; Marengo St., Adams Township and Lake St., Washington Township, to DOAN & LANGENDERFER, at $3302 and $2375 respectively. Noted Aug. 19 and 26.

Uhrichsville, Ohio—Bonds for $12,000 have been sold. The proceeds will be used for paving one mile of the Newport Rd., beginning at the Uhrichsville corporation line.

Westerville, Ohio—Bids will be received until Sept. 23 by R. D. Bennett, Village Clk., for the purchase of $23,000 in bonds. The proceeds will be used for improving Winter St. from State to Vine St., Vine St. from Broadway to the County line and West Home St. from State to West St. Noted July 8.

✚Zanesville, Ohio—The contract for improving Adamsonville Rd. with nonbituminous slag macadam has been awarded to AYERS & KAPPES, Zanesville, at $127,099. Noted Sept. 2.

Anderson, Ind.—Bids will be received by the Commissioners of Madison County until 10 a.m., Sept. 15, for the construction of a concrete road in Anderson Township. J. B. Benefiel is Audr.

Danville, Ind.—Bids will be received by G. Macomber, Treas. Hendricks County, until Sept. 15 for the purchase of $21,600 and $13,600 in bonds. The proceeds will be used for improving various highways.

Delphi, Ind.—At a recent election the citizens voted in favor of the question of issuing $50,000 in bonds. The proceeds will be used for improving a number of roads in Carroll County.

Frankfort, Ind.—Bonds for $31,280 have been sold The proceeds will be used for improving a number of roads.

✚Goshen, Ind.—AMANDUS M. SMITH, Elkhart, at $57,775, has been awarded the contract for paving the Elkhart-Goshen Rd. with concrete in Concord Township.

Lafayette, Ind.—The City Council has passed an ordinance authorizing the Board of Public Works to improve 16th St. between Salem and Union St. and to construct cement sidewalks on both sides of Erie St. between Ferry and North St.

Noblesville, Ind.—Bids will be received until 10 a.m., Sept. 11, by the Commissioners of Hamilton County for the construction of a road in Noblesville Township. W. O. Horton is Audr.

✚South Bend, Ind.—A contract for paving Franklin St. with brick has been awarded to C. H. DeFREES, South Bend, at $13,518.

South Bend, Ind.—Bids will be received until Sept. 14 by Fred W. Martin, Treas. St. Joseph County, for the sale of $56,000 in bonds. The proceeds will be used for improving various highways.

✚Amboy, Ill.—A contract for paving Plant St. has been awarded to HENRY ZOLPHER & SONS, Mendota, at $838.

✚Bloomington, Ill.—The Board of Local Improvements has awarded the contract for paving Beecher St. and Franklin Ave. to I. D. LAIN, Bloomington, at $15,715.

Bloomington, Ill.—Bids will soon be received for paving Beecher St. between East and Park St. and Franklin Ave. between Beecher and Division St.

Decatur, Ill.—Bids will be received about Sept. 16 for constructing a combined curb and gutter and for 17,000 sq.yd. of brick pavement on a 5-in. concrete foundation.

Edwardsville, Ill.—Plans are being considered by the city for paving with brick, on a 6-in. concrete and combination curb, Randle, Center and Buchanan St. G. Schaffer, Bohn Bldg., is Engr.

Herrin, Ill.—Bonds for $75,000 have been voted. The proceeds will be used for the construction of hard roads in Herrin Township.

Jacksonville, Ill.—The Board of Local Improvements contemplates reparing West State St.

Mattoon, Ill.—(Official)—The City Council has decided to postpone the paving of South 18th St. until next year. John A. Goetz is City Engr. Noted Aug. 26.

Maywood, Ill.—Bonds for $26,000 have been sold. The proceeds will be used for street improvements

Springfield, Ill.—The Board of Local Improvements of Pleasure Driveway and Park District plan to pave Grand Blvd. with asphalt. Estimated cost, $12,000.

✚Grand Rapids, Wis.—(Official)—The Board of Public Works has awarded the contract for paving Grand Ave. to GEORGE R. KERCHIE, Madison, Wis., at about $7000. E. L. Brown is City Clk. Noted Aug. 19.

✚Neodesha, Wis.—The contract for paving Wisconsin, Osage, Iowa, Ninth and Church St. has been awarded to the VAN HAFFTEN CONSTRUCTION CO., Joplin, Mo., at $19,383.

Ames, Iowa—The City Council has voted to pave various streets and avenues of the city.

✚Duluth, Minn.—A contract for paving Colorado St. has been awarded to J. JOHNSON, at $9750.

✚Shakopee, Minn.—(Official)—The contract for improving State Rd. No. 13 has been awarded to J. J. MERGEUS, Excelsior, at $11,400. A. J. Mayer is County Audr. Noted Aug. 12.

Cherryvale, Kan.—The city contemplates paving Liberty St. with vertical fiber block on rolled cinder foundation.

Independence, Kan.—Bids will soon be received for improving a number of streets of the city. The work will include 4655 cq.yd. of vitrified brick pavement on a 6-in. macadam base, 2900 ft. of cement curb and gutter and 1700 sq.yd. of grading. George E. Weaver is City Engr.

Pittsburg, Kan.—Bids will soon be received for paving with brick, concrete or national pavement 12 blocks on Walnut and College Ave. L. E. Curfman is City Engr.

Wichita, Kan.—According to press reports bids will be asked in about 60 days for the construction of eight miles of 20-ft. sand clay road with a 16-ft. crown of hard dirt in Sedgwick County. Edgar V. Moore is County Engr.

✚Butte, Mont.—A contract for paving 6000 sq.yd. of Main St. has been awarded to J. R. SILVER, Butte, at $3.25 per sq.yd. Noted July 15.

✚Missoula, Mont.—(Official)—A contract for improving Pine St. has been awarded to J. C. MAGUIRE, State Bank Bldg., Butte, at $13,400. Noted Aug. 19.

Missoula, Mont.—The City Council plans to pave East Front St. in Special District No. 37. L. E. Harris is City Clk.

✚Joplin, Mo.—The contract for paving East Eighth St. from Main St. to the St. Louis & San Francisco R.R. with concrete has been awarded to V E. KOCH, Joplin, at $8206.

Kansas City, Mo.—According to press reports the Board of Public Works will pave McGee St. from 15th to 20th St. with creosoted wood blocks.

Mansfield, Mo.—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds. The proceeds will be used for constructing roads.

Seymour, Mo.—At a recent election the citizens voted in favor of the question of issuing $30,000 in bonds, the proceeds of which will be used for the construction of roads.

Paragould, Ark.—A petition has been presented to the City Council to form a new paving district to include about 10,000 sq.yd. of paving.

Angleton, Tex.—A bond issue of $103,000 for the construction of roads in Road District No. 3 has been authorized by the Commissioners Court.

Beaumont, Tex.—Bids will be received until 10 a.m., Oct. 5, by J. G. Sutton, City Secy. for the sale of $85,000 in bonds. The proceeds will be used for improving various streets. Noted Apr. 22 and June 10.

Brazoria, Tex.—At a recent election the citizens voted in favor of issuing $150,000 in bonds. The proceeds will be used for constructing roads in Brazoria Road District.

Bryan, Tex.—Bonds for $400,000 have been sold. The proceeds will be used for constructing roads.

Cleveland, Tex.—Bonds for $200,000 have been voted. The proceeds will be used for constructing roads in Cleveland Road District.

Dallas, Tex.—The Board of City Commissioners has authorized the paving of Victor St. from Renderson to Lowell St. J. M. Preston is City Engr.

Liberty, Tex.—A bond issue of $25,000 has been approved by the Attorney General. The proceeds will be used for constructing roads in Road District No. 1.

Taylor, Tex.—The city plans to pave a number of streets at an estimated cost of $300,000. W. E. Dozier is City Engr.

Cœur d'Alene, Idaho—E. M. Booth, State Engr., and the County Commissioners contemplate the construction of a permanent highway from the city to the Shoshone County line. The estimated cost is $24,000.

Cottonwood, Idaho—The Board of City Trustees plans to pave the main business streets of the city. Estimated cost between $12,000 and $18,000.

Soda Springs, Idaho—The City Council has passed an ordinance authorizing the construction of concrete sidewalks in Improvement District No. 21. Estimated cost, $50,000. Paul Tipton is City Clk.

✚Park City, Utah—The City Council has awarded the contract for paving in District No. 5 to JOHN NYMAN.

Globe, Ariz.—At a recent election the citizens voted in favor of the question of issuing $50,000 in bonds. The proceeds will be used for the construction of roads in Gila County.

✚Olympia, Wash.—A contract for improving 14 miles of McClellan Pass Highway between Natches and Summit in Yakima County has been awarded to REJOTTE, FOBERT & WINTERS, Spokane, at $27,536. Noted July 29.

Pasco, Wash.—Plans are being prepared by the J. W. Hamilton Co., Engr., for macadamizing about 10 miles of county highway.

Seattle, Wash.—The Puget Sound Bridge & Dredging Co., Central Bldg., at $92,250, submitted the lowest bid for improving Alki Ave.

Seattle, Wash.—Plans are being considered by the City Council for paving with asphalt a portion of Bailey, Vale, 42d and 43d St. and 12th Ave.

✚Tacoma, Wash.—The contract for improving Permanent Highway No. 5-A has been awarded to the WASHINGTON PAVING CO., Savage-Scofield Bldg., Tacoma, at $76,549. Noted Aug. 5.

Walla Walla, Wash.—The City Council has voted to pave and construct concrete sidewalks on Fourth St. at an estimated cost of $16,000.

Oregon City, Ore.—The City Council plans to pave portions of various streets with asphaltic concrete.

Salem, Ore.—According to press reports the city plans to pave the fair ground road with asphaltic concrete at an estimated cost of $10,000.

Anaheim, Calif.—Bids will be asked in about 90 days for paving with asphalt on a concrete base and foundation Broadway, East Broadway and West Broadway. Estimated cost, $92,400. W. E. Stewart is City Engr.

Eureka, Calif.—Press reports state that a highway will be constructed through Humboldt County by state aid. Estimated cost, $300,000.

✚Livermore, Calif.—Press reports state that the contract for paving East First St. has been awarded to the CALIFORNIA BITULITHIC CO., at $14,225.

Los Angeles, Calif.—The Brashear-Burns Co., at $12,949, submitted the lowest bid for improving Jefferson Ave. between Montana Ave. and Montecito Ave.

✚Stockton, Calif.—The City Council has awarded the contract for the improvement of East St. between Poplar and North St. to the FEDERAL CONSTRUCTION CO., at $9348.

Stockton, Calif.—The City Council plans to improve Market St. between Fair Oaks Ave. and Filbert St., at an estimated cost of $300,000.

Venturi, Calif.—At a recent election the citizens voted in favor of the question of issuing $1,000,000 in bonds. The proceeds will be used for constructing roads

✚Ottawa, Ont.—The contract for paving Preston St. with asphalt has been awarded to the OTTAWA CONSTRUCTION CO., Central Chambers, Ottawa, at $103,000.

INDUSTRIAL WORKS

Holyoke, Mass.—The Holyoke Supply Co. plans the construction of a three-story, 100x120-ft. building at Appleton and Race St., to cost $50,000.

New Bedford, Mass.—J. C. Rhodes & Co. will build a three-story addition to its factory at 123 Front St.

Spencer, Mass.—The Spencer Wire Co. will build a four-story, 48x110-ft. brick mill. H. W. Goddard is Pres.

✚Springfield, Mass.—The CASPER RANGER CONSTRUCTION CO. has been awarded the contract for the construction of a one-story, 170x300-ft. addition to the Bosch Magneto Co., to cost $75,000.

✚Springdale, Mass.—J. W. BISHOP & CO., Worcester, Mass., has been awarded the contract for the construction of a brick dyehouse for the Springdale Finishing Co. The estimated cost is $50,000.

✚Springfield, Mass.—FRED T. LEY & CO. has been awarded the contract for the construction of a brick and steel warehouse on Atlantic Ave. for the Loose-Wiles Biscuit Co. The estimated cost is $10,000.

Wollaston, Mass.—The Tubular Rivet Co., Linden St., plans the construction of a 50x178-ft., brick addition to its plant, to cost $12,000.

✚Worcester, Mass.—The EDWARD F. MINER CO., 25 Foster St., has been awarded the contract for the construction of a two-story, 80x100-ft., brick warehouse for the Pratt & Inman Co.

Bridgeport, Conn.—The Royal Equipment Co., Bostwick Ave., will add a third story to its 60x200-ft., brick factory.

✚Bristol, Conn.—The Bristol Mfg. Co. has awarded the contract for the construction of a six-story, 53x143-ft., brick factory to the TORRINGTON BUILDING CO., Torrington, Conn.

Bristol, Conn.—The Bristol Brass Co., Bristol, Conn., will build a one-story, 125x300-ft. addition to its plant, to cost $30,000.

Chicopee Falls, Mass.—The Lamb Knitting Machinery Co. will build a brick and reinforced-concrete addition to its plant on Bridge St. The estimated cost is $10,000.

Derby, Conn.—The Union Fabric Co. plans the construction of a three-story addition to its plant on Housatonic Ave.

Stamford, Conn.—Plans have been prepared by the Harris Construction Co., Arch., for the construction of a two-story, 100x100-ft., tile and concrete garage on Summer St. for the Mechaley Auto Co.

✚Woonsocket, R. I.—The J. W. BISHOP CO., Worcester, Mass., has been awarded the contract for the construction of a two-story, 90x130-ft., brick addition to the plant of the Blackstone Mfg. Co.

New York, N. Y.—(Borough of Brooklyn)—The Consumers Biscuit & Mfg. Co., 517 W. 19th St. (Borough of Manhattan), will build a three-story, 100x110-ft., brick factory at 45-53 Clinton Ave., to cost $100,000.

Rochester, N. Y.—The Vacuum Oil Co. will build an 80x96-ft. warehouse on Exchange St., to cost $18,000.

✚Camden, N. J.—The contract for the construction of a one-story, 42x163-ft. factory at Ninth and Bailey St., for the Wood Mfg. Co., has been awarded to FRANK TURNER. Peuckert & Wunder, 310 Chestnut St., Philadelphia, Penn., is Arch. Estimated cost, $30,000.

Cape May, N. J.—The Bethlehem Steel Co. plans the construction of a munitions factory to cost $30,000.

✚Allentown, Penn.—(Official)—C. P. Clauser, Secy., Allentown Dairy Co., has awarded the contract for the construction of a pasteurizing plant to SHAFFER & LANDENSLAGER, 112 North 5th St. Noted Aug. 26.

✚Beaver Falls, Penn.—JOHN M. HUGHES has been awarded the contract for the construction of a plant for the O. O. & E. P. Townsend Mfg. Co., Fallston, Penn., to replace the one destroyed by fire at a loss of $100,000.

✚Philadelphia, Penn.—The contract for the construction of a 110x180-ft. factory at Belfield and Stenton Ave. for the National Umbrella Frame Co., has been awarded to the WILLIAM STEELE & SONS CO., 1600 Arch St.

✚Philadelphia, Penn.—The contract for the construction of a cooper shop and pump-house at Delaware Ave. and Mifflin St., for the Berg Distilling Co., has been awarded to the JOSEPH LEVIN CO.

Pittsburgh, Penn.—The Packard Motor Co. will build a three-story, brick and stone building at Baum Blvd. and Enfield St., to cost $300,000.

Pittsburgh, Penn.—The Painter-Dunn Co. will build a three-story, 125x180-ft. garage and auto sales building on Center Ave.

✚Reading, Penn.—L. H. FOCHT & SON has been awarded the contract for the construction of a three-story, 135x137-ft., brick mill at Ninth and Cotton St. for Joseph Bancroft & Sons. The estimated cost is $30,000.

Baltimore, Md.—The contract will soon be awarded for the construction of a one-story, 100x105-ft., brick warehouse on North Ave. for Linwood Clark.

✚Baltimore, Md.—The Baltimore Drydocks & Shipbuilding Co. has awarded the contract for the construction of a shop to the CHESAPEAKE IRON WORKS. The estimated cost is $100,000.

✚Hagerstown, Md.—Peuchert & Wunder, Arch., 310 Chestnut St., Philadelphia, Penn., has awarded the contract to the CONSOLIDATED ENGINEERING CO., Baltimore, Md., for the construction of a two-story, 100x190-ft., brick and reinforced-concrete factory for the Pangborn Corporation. The estimated cost is $60,000. Noted July 1, 8 and 22.

✚Portsmouth, Va.—The Seaboard Air Line Ry. has awarded the contract to the CHRISTIAN CONSTRUCTION CO., Durham, N. C., for the rebuilding of its shops which were destroyed by fire. The estimated cost is $200,000.

✚Gastonia, N. C.—J. A. JONES, Charlotte, N. C., has been awarded the contract for the construction of a two-story, 60x200-ft., brick addition to the Arlington Mills. The estimated cost is $20,000.

✚Winston-Salem, N. C.—The P. H. Hanes Knitting Co. has awarded the contract for the construction of a two-story, 127x300-ft., brick and steel mill to the TRAVERS-WOOD CO.

Newman, Ga.—The Newman Cotton Mills will build a three-story, 60x60-ft., brick mill to cost about $10,000. J. E. Sirrine, Greenville, S. C., is Engr.

✚Maysville, Ky.—The Maysville Cotton Mills has awarded the contract to HARDING & SIMONS for the construction of a three-story, 70x116-ft. warehouse. J. E. Sirrine, Greenville, S. C., is Arch. Noted Aug. 12.

Akron, Ohio—Plans have been prepared by the Osborn Engineering Co., 740 Engineers Bldg., for the construction of a three-story factory for the Western Tire & Rubber Co., to contain 940,000 sq.ft. of floor space. M. O. Neil is Pres.

Cleveland, Ohio—The Independent Towel Supply Co., 1822 Central Ave., will build a two-story addition to its factory. The estimated cost is $25,000. E. F. Gibbons, 510 Erie Bldg., is Arch.

Cleveland, Ohio—Plans have been prepared by W. J. Carter, Arch., 1423 Illuminating Bldg., for the construction of a six-story warehouse at Rockwell and East Sixth St., for the W. M. Pattison Supply Co., St. Clair St. Estimated cost, $125,000.

✚Dayton, Ohio—The Platt Iron Works, Keowee St., has awarded the contract for the construction of a 125x300-ft. addition to its plant to the CONCRETE STEEL CONSTRUCTION CO. The estimated cost is $35,000.

Indianapolis, Ind.—The Pathfinder Co. plans the construction of a 60x400-ft. addition to its plant.

✚Kalamazoo, Mich.—The Rex Paper Mills Co. has awarded the contract for the construction of four buildings to the HAUSER-OWEN-AMES CO., Grand Rapids, Mich. The estimated cost is $68,000.

Chicago, Ill.—Edgar G. Frady, Pres., Cole Motor Co. of Illinois, plans the construction of a four-story, 50x160-ft. building at 2326-28 Indiana Ave., to cost about $70,000.

Chicago, Ill.—The Republic Box Co. will build a three-story factory at 913 North Halsted St. Holabird & Roche, 104 South Michigan Ave., is Arch.

Chicago, Ill.—The Empire Fireproof Storage & Van Co., 72nd Pl., will build a seven-story storage warehouse on Stony Island Ave., to cost $100,000.

✚West Duluth, Minn.—(Duluth post office)—The contract for the construction of an $18,000 addition to the factory of the Western Rug Co. has been awarded to EMIL J. ZAUFT. A. W. Puck is Arch.

Wichita, Kan.—The Standard Oil Co. has purchased a site and will build a plant at an estimated cost of $100,000.

Lincoln, Neb.—The Plattner-Yale Mfg. Co. will build a plant at 22nd and X St., to cost $50,000.

✚Chillicothe, Mo.—The contract for the construction of a three-story garage on South Locust St. for the Chillicothe Automobile & Supply Co. has been awarded to S. E. SHULTZ, at $38,785. Other bidders were: C. B. Crosby, $39,317; Dumas Construction Co., $41,200; G. W. Miller, $40,295; Ray & Son, $45,600.

Pine Bluff, Ark.—It is reported that plans are being prepared for the construction of a $50,000 mill for the Marco Milling Co. Elmo Marsh is Pres.

El Paso, Tex.—Swift & Co., Chicago, Ill., will rebuild its plant which was recently destroyed by fire. J. S. Thompson is Local Representative. The estimated cost is $30,000.

West Tulsa, Okla.—The Tulsa Boiler Co. will build a factory at an estimated cost of $60,000.

Portland, Ore.—W. B. Glafke plans the construction of a cold-storage plant and warehouse at East Third and East Alder St., to cost about $50,000. Camp & Du Puy is Arch.

✚Portland, Ore.—The contract has been awarded to Q. L. KILGREEN for the construction of a warehouse for Mrs. Fannie E. Brown, at $25,000. Sutton & Whitney is Arch. Noted Aug. 26.

✚The Dalles, Ore.—The Oregon-Washington R.R. & Navigation Co. has awarded the contract for the construction of a roundhouse, machine shop and power plant to NETTLETON, BRUCE & ESCHBACH, Seattle, Wash. The estimated cost is $50,000.

✚Ford City, Ont.—WELLS & GREY has been awarded the contract for the construction of a $60,000 addition to the plant of the Ford Motor Co., Detroit, Mich.

FEDERAL GOVERNMENT WORK

✚Post Office—Gardiner, Maine—The contract for the construction of a post office at Gardiner has been awarded to W. H. FISSELL & CO., New York, N. Y., at $55,000. Noted Aug. 19.

Buildings—Portland, Maine—Bids were received Sept. 2 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of buildings at the Quarantine Station, Portland, (a) barracks, (b) storehouse, as follows: King Lumber Co., Charlottesville, Va., (a) $72,385, (b) $2500; Forgione & Romano, Portland, (a) $63,322, (b) $2950; J. Kresse Co., New York, N. Y. (a) $65,000, (b) $2400; F. W. Cunningham Co., Portland, (a) $62,712, (b) $3615; Mahoney Construction Co., Portland, (a) $66,533, (b) $3315. Noted Aug. 12.

✚✚Dredging—Portland, Maine—The contract has been awarded to the EASTERN DREDGE CO., East Boston, Mass., at $37,250, for dredging in the St. Crois River. Bids were opened Aug. 16. Noted Aug. 26.

Hot-Water System—Newport, R. I.—Bids were received Aug. 28 by the Bureau of Yards and Docks, Washington, D. C., for installing a hot water-piping system at the Naval Hospital as follows: John F. Dalton, 1745 Amsterdam Ave., New York, N. Y., $3877; Ridout, Chandler & Joyce, Boston, Mass., $4324; Ray B. Wilson, Jr., 14 W. Broadway, Newport, $4970, and Detroit Plumbing Co., Washington, D. C., $6500. Noted Aug. 12.

Post Office—Naugatuck, Conn.—Bids will be received until 3 p..m, Oct. 13, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing a post office at Naugatuck.

★Repairing Breakwater—Buffalo, N. Y.—Bids were received Sept. 1 for repairing the breakwater at Buffalo as follows: Great Lakes Dredge & Dock Co., Buffalo, $22,870; H. S. Kerbaugh, Inc., Buffalo, $14,605; Lake Shore Contracting Co., Cleveland, Ohio, $22,280 and the Coast & Lakes Contracting Corporation, New York, $14,055. Noted Aug. 19.

Miscellaneous Supplies—New York, N. Y.—Bids will be received until 2 p.m., Sept. 16, by the Lighthouse Inspector, Tompkinsville, for furnishing miscellaneous supplies for the fiscal year 1916.

Dredging—Philadelphia, Penn.—All bids received Aug. 9 for dredging in the Delaware River on Bellevue and Cherry Island light-house ranges have been rejected on account of being excessive. Noted July 15.

★Air Compressors—Pittsburgh, Penn.—Bids were received Aug. 21 by Lieut.-Col. Francis R. Shunk, Pittsburgh, for installing air compressors, engines and turbines as follows: Foos Gas Engine Co., Springfield, Ohio, Lot 2, $3575; Bruce-Macbeth Engine Co., Cleveland, Ohio, Lot 2, $3705; Turner Fricke Mfg. Co., Pittsburgh, Lot 2, $3850; Combination Engine & Compressor Co., Bradford, Lot 1, $6000; Hope Engineering & Supply Co., Mt. Vernon, Ohio, Lot 2, $3100; Hall Steam Pump Co., Pittsburgh, Lot 1, $4444. Noted July 29.

★Houses—Pittsburgh, Penn.—Bids were received Aug. 25 by Lieut.-Col. Francis R. Shunk, Pittsburgh, for constructing two brick lockkeepers' houses at Dam No. 10, Ohio River as follows: Guy Johnston Contracting Co., Toronto, Ohio, $11,400; Earl N. Everson, Brilliant, Ohio, $22,200; McFeely Bros., Steubenville, Ohio, $12,900; Schutz, Schreiner & Clyde Co., Pittsburgh, $13,250. Noted July 29.

★Lock Gates—Pittsburgh, Penn.—Bids were received for furnishing steel lock gates, valves and operating machinery at Lock No. 6, Monongahela River, as follows: Simonds Mfg. Co., Pittsburgh, $11,723; Ellicott Machine Corporation, Baltimore, Md., $9488; Union Foundry & Machine Co., Pittsburgh, $23,931; Thomas Carlin's Sons Co., Pittsburgh, $7600; Whitehead & Kales Iron Works Detroit, Mich., $29,984; Rosedale Foundry & Machine Co., Pittsburgh, $11,095; Penn Bridge Co., Beaver Falls, $23,790; Independent Bridge Co., Pittsburgh, $14,500; H. P. Gazzam Machine Co., Pittsburgh, $9995; and J. & J. B. Milholland Co., Pittsburgh, $7995. Noted July 29.

Building—Baltimore, Md.—Bids were received as follows Aug. 31, by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction, mechanical equipment and elevators at the U. S. Immigration Station, Baltimore, Md., (a) construction, exclusive of wharf, (b) construction, exclusive of wharf and administration building, (c) wharf: Construction: Irwin & Leighton, Philadelphia, Penn., (a) $294,800, (b) $266,500, (c) $11,500; William Dall Co., Cleveland, Ohio, (a) $267,688, (b) $241,516, (c) $10,500; Consolidated Engineering Co., Baltimore, (a) $298,700, (b) $271,500, (c) $11,000; Norcross Bros. Co., Worcester, Mass., (a) $305,000, (b) $275,000, (c) $6000; George E. Wyne, Washington, D. C., (a) $333,000, (b) $301,000, (c) $10,100; David M. Andrew Co., Baltimore, (a) $292,300, (b) $264,300, (c) $11,500; Singer Pentz Co., Baltimore, (a) $286,113, (b) $260,807; Morrow Bros., Baltimore, (a) $284,100, (b) $256,000, (c) $10,370; A. L. Guidone & Sons, New York, N. Y., (a) $277,000, (b) $265,450, (c) $10,350; J. Henry Miller & Co., Baltimore, (a) $219,700, (b) $291,100; (c) $12,000; Henry Smith & Sons Co., Baltimore, (a) $307,000, (b) $278,000, (c($11,000; Henry S. Ripple, Baltimore, (a) $309,800, (b) $281,000, (c) $9500; McLean Contracting Co., Baltimore, (c) $14,125; M. Yeager & Sons, Danville, Ill., (a) $279,893, (b) $256,893, (c) $11,500. Mechanical Equipment: Walter E. Hill & Co., Baltimore, $97,380; W. G. Cornell Co., Washington, D. C., $87,884; Enterprise Steam & Hot Water Heating Co., Baltimore, $95,376; Crook-Kries & Co., Baltimore, $92,200; Louis F. Andrae & Co., Baltimore, $95,600; Hanley-Casey Mechanical Equipment Co., Chicago, Ill., $98,000; Fitzpatrick & Hoepfner, Columbus, Ohio, $98,800; S. Faith & Co., Philadelphia, Penn., $98,700; Riggs, Distler & Stringer, Baltimore, $91,175; Almirall & Co., New York, N. Y., $109,677. Elevator equipment: Otis Elevator Co., Washington, D. C., $12,721; Standard Plunger Elevator Co., Worcester, Mass., $10,950; Robert Wetherill & Co., Chester, Penn., $18,580. Noted Aug. 12.

Post Office—Wilkesboro, N. C.—Bids will be received until 3 p.m., Oct. 14, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing the U. S. post office at Wilkesboro.

★Post Office—Palatka, Fla.—Bids were received Aug. 27 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Palatka, Fla., (a) limestone; (b) sandstone, as follows: A. Bassford, Tampa, (a) $48,321; (b) $49,321; Rogers & Kaiser, Chicago, Ill., (a) $42,582, (b) $45,038; Algernon Blair, Montgomery, Ala., (a) $41,428; Westchester Engineering Co., White Plains, N. Y., (a) $39,652, (b) $42,500; Potters' Lumber Co., East Liverpool, Ohio, (a) $43,200; Miles & Bradt, Atlanta, Ga., (a) $44,900; J. L. Crouse, Greensboro, N. C., (a) $40,935, (b) $41,660; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $47,523; George Becking, Chattanooga, Tenn., (a) $41,000; Frank M. Weakley, Portsmouth, Va., (a) $52,942; H. H. Brown, Dothan, Ala., (a) $45,200, (b) $45,800; W. H. Fissell & Co., New York, N. Y., (a) $42,300, (b) $44,800; J. S. Rogers Co., Moorestown, N. J., (a) $44,999, (b) $46,299; Dabbs & Wetmore, Meridian, Miss., (a) $40,589, (b) $41,337; Newport Contracting & Engineering Co., Newport News, Va., (a) $44,301. Noted July 22.

Post Office—Logan, Ohio—Bids will be received until 3 p.m,. Oct. 14, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing a one-story and basement brick, terra cotta and stone-faced post office at Logan.

✚Post Office—Ft. Atkinson, Wis.—The contract for the construction of a post office at Ft. Atkinson has been awarded to CLARKE CONSTRUCTION CO., Danville, Ill., at $40,100. Noted Aug. 12.

Wood Stave Pipe—Newell, S. D.—Bids will be received until 4 p. .m., Sept. 16, by the U. S. Reclamation Service, Newell, for constructing about 3285 ft. of 60-in. and 450 ft. of 24-in. wood stave pipe.

Floors—St. Louis, Mo.—Bids were received Sept. 1 by the Acting Supervising Architect, Washington, D. C., for floor work in the U. S. Customhouse as follows: Kansas City Marble & Tile Co., Kansas City, $10,800; American & Venetian Marble Co., Kansas City, $7800; N. O. Nelson Mfg. Co., St. Louis, $12,888. Noted Aug. 12.

✚Post Office—Corpus Christi, Tex.—The contract for the construction of a post office at Corpus Christi has been awarded to BARNES BROS., Logansport, Ind., at $115,000. Noted May 20.

✚✚Miscellaneous Work—Denver, Colo.—The contract has been awarded to the NORMAN KER CO., 1123 Broadway, New York, N. Y., at $9305, for furnishing flag poles, and miscellaneous bronze and iron work at the Denver post office. Noted Sept. 2.

✚Reclamation—Yakima, Wash.—The contract has been awarded to DUNN & HOGAN, North Yakima, Wash., for furnishing sand and gravel along the canals of the Outlook Irrigation District, Sunnyside Unit, Yakima Irrigation project, Wash., at $5601.

✚Wharf—San Francisco, Calif.—The contract has been awarded to HYDE, HARJES & CO., San Francisco, at $9341, for constructing a wharf at the Naval Training Station, San Francisco. Noted Aug. 26.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Sept. 22, by Maj. F. C. Boggs, Gen. Pur. Agt. Panama Canal, Washington, D. C., for furnishing miscellaneous supplies.

✚Building—Pearl Harbor, H. T.—The contract has been awarded to BOWLER & INGVERSON, Honolulu, at $19,890, for constructing officers' quarters at the Naval Station. Noted Aug. 26.

MISCELLANEOUS

Shore Protection—Boston, Mass.—The lowest bid submitted to the Park Commission for the construction of concrete shore protection in Revere was from Coleman Bros., Chelsea at $19,853. Noted Aug. 26.

Barge Canal Work—Albany, N. Y.—(Official)—Bids will be received by W. W. Wotherspoon, State Supt. of Pub. Wks., until Sept. 28 for the following under: Terminal Contract No. 47 for increasing the height of dockwalls, grading and paving the terminal sites on the north and south sides of the barge canal, east of the Main-Delaware Ave. bridge at Tonawanda and under Terminal Contract No. 49, grading a terminal site in the village of Spencerport.

Elimination of Grade Crossing—Buffalo, N. Y.—Bids will be received by Edward B. Guthrie, Ch. Engr., 436 Ellicott Sq., Buffalo, until 11 a.m., Sept. 15 for the construction of a grade crossing in Bailey Ave., over the Pennsylvania R.R. tracks.

+Subway Station—New York, N. Y.—(Borough of Bronx)—(Official)—The contract for station finish work for parts of the Seventh Ave., Lexington Ave. and White Plains Rd. Transit Railroads has been awarded to the ALTORIA REALTY & CONSTRUCTION CO., 3 East 44th St., New York, at $860,636. Noted July 29 and Aug. 26.

Duct Line—New York, N. Y.—(Borough of Bronx)—Bids will be received by the Public Service Commission, 154 Nassau St., until 12:15 p.m., Sept. 17, for the construction of a duct line under a portion of East 153d St. for the Seventh Ave.-Lexington Ave. Rapid Transit.

Freight Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by R. A. C. Smith, Comr., Docks and Ferries, Pier A, Battery Pl., until noon, Sept. 17, for building a freight shed near the foot of 30th St., Brooklyn.

++Subway Station—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for the construction of the station finish on Section No. 2, Route Nos. 36 and 37 of the Astoria Elevated R.R. has been awarded to CHARLES MEADE & CO., 38 Park Row, New York, at $268,102. Noted July 15 and Aug. 12.

+Track Supplies—New York, N. Y.—(Borough of Manhattan)—(Official)—Contracts have been awarded by the Public Service Commission for furnishing track materials and supplies as follows: Untreated ties and timber, J. H. BURTON & CO., at $1,273,856; treated ties and timber, LONG LEAF PINE CO., INC., at $100,362; special work, order No. 3, RAMAPO IRON WORKS, at $54,960; special work, order No. 4, WILLIAM WHARTON JR., & CO., at $41,907; cast iron, AMERICAN BRAKE SHOE & FOUNDRY CO., at $10,528; screw spikes, AMERICAN IRON & STEEL MFG. CO., at $25,741; malleable iron, FORAN FOUNDRY & MFG. CO., $36,118; tie plates type A, HERBERT W. LOCKWOOD, at $123,975; also tie plate type "D" $8239; tie plates, types, "E", "F", "G" and "H" $17,139 and cut track spikes, at $34,338; tie plates, type "B" L. D. ROCKWELL, at $13,267; also type "C", $5,140; bolts and nuts, OLIVER IRON & STEEL CO., at $117,911. Noted July 29, and Aug. 26.

Jetties—Stone Harbor, N. J.—Press reports state that the City Council has authorized the construction of V-shaped jetties on the channel front between Tuxedo Point and Shelter Haven Inlet.

Coal Pier—Baltimore, Md.—The Pennsylvania R.R. Co. will revise plans for the construction of its coal pier. A. C. Stand, Philadelphia, is Ch. Engr.

Flood Protection—Augusta, Ga.—According to press reports the City Council has passed a resolution to call for bids on the purchase of $250,000 flood protection bonds.

+Pier Sheds—Savannah, Ga.—The contract for constructing pier sheds (exclusive of steel frame and foundations) has been awarded by the Ocean Steamship Co., Savannah, to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. J. G. Basinger, 52 Broadway, New York, N. Y., is Engr.

Embankment—Fernwood, Miss.—Bids will be received by the Chief Engineer, Fenwood & Gulf R.R. Co., for placing 38,000 cu.yd. of embankment. The work is to be completed in five months.

Pile Foundations, Etc.—New Orleans, La.—Bids will be received by Ernest M. Loeb, Pres. Bd. of Comrs., 200 New Orleans Courthouse Bldg., until 2 p.m., Sept. 15, for constructing the pile foundations for the workhouse, annex, drier house, boiler and transformer house, and connections, for the public grain elevator, at the foot of Bellecastle St. Ford, Bacon & Davis, 921 Canal St., New Orleans, La., is Arch.

Speedway—Louisville, Ky.—The Louisville Automobile Speedway Co., Louisville, will be organized with a capital of $250,000 to construct a speedway of creosoted oak.

Retaining Wall—Cincinnati, Ohio—Bids will be received by the Board of County Commissioners until noon, Sept. 17, for the construction of a bridge and retaining wall on Four Mile Rd.

+Fire Boat Repairs—Cleveland, Ohio—The contract for the rebuilding and repairing of the fire tug "Clevelander" has been awarded to the MANITOWOC CO., at $33,500. A. A. Benesch, is Dir. of Pub. Ser.

Elimination of Grade Crossing—Cleveland, Ohio—Press reports state that preliminary plans have been approved by the City Engineering Commission for the elimination of the grade crossing between Fulton Rd. and Detroit Ave. on the New York, Chicago & St. Louis R.R. The total cost of the elimination will be $2,900,000. The city's portion is $765,000.

Park Improvement—Massillon, Ohio—(Official)—Bids will be received by R. J. Krisher, City Audr., until noon, Sept. 20, for the purchase of $25,000 in park improvement bonds.

Retaining Wall—Steubenville, Ohio—Bids will be received by John L. Means, County Audr., until Sept. 17, for constructing a retaining wall on Long Run, Mt. Pleasant.

Retaining Wall—Youngstown, Ohio—Bids will be received by the County Commissioners, until 10 a.m., Sept. 10, for constructing a retaining wall on McCartney Rd.

Flood Prevention—Muncie, Ind.—It is reported that the city plans to improve the White River for a distance of four miles to prevent floods.

Drainage—Adrian, Mich.—Press reports that the county will spend about $85,000 for draining the eastern section of the county.

Drainage—Aledo, Ill.—Bids will be received by the Central States Engineering Co., Room 402 Hershey Bank Bldg., Muscatine, Iowa, until 7:30 p.m., Sept. 24, for the construction of three sections of tile drains in Mercer County, Ill.

Drainage—Des Moines, Iowa—According to press reports, the Harmon Engineering Co., Peoria, Ill., has been engaged to prepare plans for reclaiming about 23,000 acres of land along Skunk River, in Polk, Story and Jasper counties.

Drainage—Muscatine, Iowa—Bids will be received by the Central States Engineering Co., Room 402, Hershey Bldg., until Sept. 24 for constructing three contract sections of drainage aggregating about 47 miles.

River Improvement—St. Louis, Mo.—Press reports state that the Board of Aldermen has been requested to call a special election for the purpose of issuing $5,500,000 in bonds for improving the River des Peres.

Drainage—Lonoke, Ark.—Plans have been prepared for the drainage of about 10,000 acres in Indian Bayou District No. 2 and bids will soon be called for. The Charles Miller Engineering Co., Southern Trust Bldg., Little Rock, Ark., is Engr. The estimated cost is $40,000.

Smokestack—El Paso, Tex.—It is reported that the El Paso Smelter Co. plans the erection of a 300-ft. smokestack to cost about $250,000.

Drainage—Houston, Tex.—It is planned to issue $140,000 in bonds for the construction of a drainage system.

Natatorium—Aberdeen, Wash.—Plans have been completed for a swimming pool to be of corrugated iron, and a club house for the Aberdeen Brewing Co. The estimated cost is $15,000.

Dike—Cathlamet, Wash.—Bids will be received by the Commissioners of Diking District No. 1, until 2 p.m., Oct. 1, for constructing a system of dikes, including automatic tide gates, pumping stations, etc. G. H. Kyle, 718 Spalding Bldg., Portland, Ore., is Engr. Noted May 27 and Aug. 19.

Drainage—North Yakima, Wash.—The city will soon hold an election to vote on $80,000 in bonds for the construction of the West Side Drainage District. L. O. Meigs is City Atty.

Elimination of Grade Crossing—Portland, Ore.—Proceedings will be started for a general grade crossing elimination project along the line of the Oregon-Washington R.R. & Navigation Co. from the head of Sullivan Gulch to the city limits. The work will cost about $750,000, and plans have been completed. A. L. Barbur is Audr.

Retaining Walls—St. John, N. B.—The City Council plans to construct retaining walls on Main, Moore and Rockland St. at an estimated cost of $16,300. H. F. Wardroper is Clk.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Fulton, N. Y.—Plans are being prepared by Clarence Brazer, Arch., 1133 Broadway, New York, for the construction of a church and parish house for the Zion Episcopal Church. Estimated cost, $50,000. M. J. Peters is Pastor and Chn. of Bldg. Com.

Ithaca, N. Y.—Bids are being received by the Civil Engineering Department of Cornell University on the general contract for the construction of a one-story reinforced-concrete and tile observatory near the Agricultural College. The estimated cost is $50,000. Le Roy P. Burnham, 3 Central Ave., is Arch.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by Gustave E. Steinbach, Arch., 15 East 40th St., New York, for the construction of a 1½-story church on Tinton Ave. near 155th St. for the St. Anselm Church. The estimated cost is $60,000 Bernard Kevenhoester, 673 Tinton Ave., is Pastor.

New York, N. Y.—(Borough of Bronx)—Bids will be received about Nov. 1, by Anthony F. A. Schmitt, Arch., 604 Courtland Ave., for the construction of a one-story, 100x151-ft. church at College Ave. and 145th St. for St. Rita's Church. The cost is estimated at $75,000.

New York, N. Y.—(Borough of Brooklyn)—Plans are being prepared by Nelson & Van Wagenen, Arch., 15 West 38th St., New York, for the construction of a church at Bedford Ave. and Hawthorne St. for the Congregational Church of the Evangel. The estimated cost is $40,000.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by Shape & Bready, Arch., 220 West 42d St., for the construction of a seven-story building at 42d St. and Second Ave. for the New York College of Dentistry. The estimated cost is $50,000.

New York, N. Y.—(Borough of Manhattan)—The Oceanic Investing Co. plans to construct a 20-story building to be known as the Astor Trust Co. Bldg., at Fifth Ave. and 42d St. The cost is estimated at $1,000,000. Montague Flagg, 2d, 109 Broad St., is Arch.

New York, N. Y.—(Borough of Manhattan)—Edgar A. Levy will build an apartment house at a cost of $500,000. Schwartz & Gross, 347 Fifth Ave., is Arch.

New York, N. Y.—(Borough of Queens)—The Long Island Loft Corporation has had plans prepared for the construction of a five-story, 54x187-ft., brick loft building at Wilbur Ave. and Sunswick St., Long Island City. The cost is estimated at $90,000.

New York, N. Y.—(Borough of Richmond)—Mason R. Strong, Arch., 7 Wall St., New York, has prepared plans for the construction of a three-story, 75x147-ft., orphan asylum at Ft. Wadsworth, S. I., for the Bethlehem Orphans' Home, College Point, L. I. The estimated cost is $100,000. Noted Mar. 25.

Syracuse, N. Y.—Preliminary plans are being prepared by James I. Meehan Co., Arch., 1611 First North St., for the construction of a five-story clubhouse. The estimated cost is $100,000.

White Plains, N. Y.—(Official)—Bids were received for the construction of a workhouse and penitentiary at East View, for the Westchester County as follows: Wells Bros. Construction Co., 366 Fifth Ave., New York, $543,000; John H. Parker Co., 315 Fourth Ave., New York, $547,695; John T. Brady & Co., 103 Park Ave., New York, $548,840; Norcross Bros. Co., 103 Park Ave., New York, $556,500; George A. Fuller Co., 111 Broadway, New York, $560,785. Thomas F. Cox, Jr., is Clk. of Westchester County Bldg. Comn. Noted July 22 and Aug. 19.

Newark, N. J.—The Common Council has petitioned the Finance Committee to appropriate $40,000 to be used for repairs to the Central Market.

Carbondale, Penn.—Plans are being prepared by E. H. Davis, Arch., Scranton, for the construction of a two-story, brick and concrete high school. The estimated cost is $100,000.

Indiana, Penn.—The Indiana State Normal School plans to expend $50,000 on alterations and additions to its buildings. James E. Ament is in charge of construction.

✚Philadelphia, Penn.—(Official)—WILLIAM R. DOUGHERTY, 1608 Sansom St., Philadelphia, has been awarded the general contract for the construction of a seven-story, 45x179-ft., building with four 45x175-ft. wings at 54th St. and Cedar Ave. for the Miserecordia Hospital. E. F. Durang & Son, 12th and Chestnut St., is Arch Noted Apr. 1 and July 15.

✚Philadelphia, Penn.—(Official)—The contract for the construction of an immigrant station at Reed St. Yards, South Wharfs, for the Pennsylvania R.R. has been awarded to JOHN N. GILL & CO., 1213-15 Filbert St., Philadelphia, at $84,995. Other bidders were: Fred A. Havens & Co., 845 North 19th St., $93,017; Brann & Stuart Co., Arcade Bldg., $87,511; Barclay, White & Co., $97,377; Armstrong & Latta Co., North Land Title Bldg., $87,354; William R. Dougherty, 1608 Sansom St., $98,633. Noted July 22 and 29.

✚Pittsburgh, Penn.—The Finance Committee of the Board of Public Education has awarded the general contract for the construction of the South Hills High School on Ruth St. to GOLDEN & CRICK, 3512 Fifth Ave., Pittsburgh, at $224,008. Noted June 10.

✚Pittsburgh, Penn.—The contract has been awarded to the THOMPSON-STARRETT CO., at $232,950, for the construction of the Bailey High School, at Ruth, Harwood and Eureka St. and Secane St. Noted June 10.

Pittsburgh, Penn.—The Americus Republican Club plans the construction of a seven-story clubhouse at Penn Ave. and Fourth St., to cost about $150,000. F. J. Osterling, 316 Fourth Ave., is Arch.

Akron, Ohio—Plans have been prepared by George J. Ball, Arch., Crosier St., for the construction of a two-story home for nurses at the People's Hospital. The cost is estimated at $50,000. Noted May 13.

Cleveland, Ohio—Bids will be received until noon, Sept. 27, by the Clerk of Board of Education, Rockwell and East Sixth St., for the construction of a school at Almira Ave. and West 98th St. Frank G. Hogan is Dir. of Schools.

Evansville, Ind.—The Hotel Building Co., will build an eight-story hotel, to be known as the Hotel McCurdy, at a cost of $500,000.

Indianapolis, Ind.—A. M. Glossbrenner, Chn., Organization Com. of Indianapolis Armory Bldg. Assoc., has prepared tentative plans for the construction of an armory for the Indiana National Guard. Noted Aug. 19.

✚Albion, Mich.—The FRANK L. SHOEMAKER CONSTRUCTION CO., Kalamazoo, has been awarded the general contract for the construction of a two-story physics building at the Albion College. Estimated cost, $40,000. Noted Aug. 19.

Marquette, Mich.—The Board of Education plans the construction of a three-story, brick and stone high school. John D. Chubb, 109 North Dearborn St., Chicago, Ill., is Arch. The estimated cost is $120,000. Noted May 27.

Chicago, Ill.—The Cole Motor Co. of Illinois will build a four-story display house at 2326 Indiana St., to cost $70,000. Edgar C. Frady is Pres.

Chicago, Ill.—Harry W. Rubloff plans the construction of a three-story theater and office building at 69th and Green St. Estimated cost, $100,000.

✚Chippewa Falls, Wis.—The contract for the construction of an office building for the Edward Rutledge Charity Corporation, has been awarded to W. J. KINGSLEY, Faribault, Minn., at $41,300. Noted July 8 and 15.

Madison, Wis.—Claude & Starck, Arch., has prepared plans for the construction of a two-story, 75x115-ft., brick school to cost $60,000.

✚Montello, Wis.—The general contract for the erection of the new Marquette county courthouse and jail, estimated to cost $60,000, has been awarded to S. D. KNUDSEN and F. D. BURGESS, Waupaca, Wis. Noted July 22 and Aug. 19.

Sheboygan, Wis.—The Board of Public Works will soon award the contract for the construction of a three-story, 56x150-ft., brick and stone city hall. Herman W. Buemming, 521 Jackson St., Milwaukee, Wis., is Arch. The estimated cost is $115,000.

✚Ames, Iowa—The State Board of Education has awarded the general contract for the construction of a dormitory for girls at the Iowa State College to the J. B. EVANS CONSTRUCTION CO., Mexico, Mo. The estimated cost is $60,000. Noted Sept. 2.

Ames, Iowa—All bids received for the construction of a science building at the Iowa State College have been rejected by the State Board of Education. New bids will soon be received. The cost is estimated at $60,000. Noted Sept. 2.

✚Cherokee, Iowa—The general contract for the construction of the Cherokee High School has been awarded to PAYANT & BRASS, Faribault, Minn., at $67,805. Noted June 17.

Mason City, Iowa—The Brotherhood of America organization plans to construct a permanent home for the order at Mason City. The cost is estimated at $250,000.

Sioux City, Iowa—Preliminary plans have been prepared by Beuttler & Arnold, Arch., Davidson Auto Blk., for the construction of a Masonic Temple at Ninth and Douglas St. for the York Rite Bodies. The estimated cost is $100,000. Noted Sept 2.

✚New Duluth, Minn.—The Minnesota Steel Co. has awarded the contract to GEORGE H. LOUNSBERRY, Duluth, Minn., for the construction of a brick and concrete office building and chemical laboratory. The estimated cost is $100,000.

✚St. Paul, Minn.—(Official)—The contract for the construction of a 12-story, 150x200-ft., brick and stone hotel to be known as the Hillcrest at Dale St. and Grand Ave. for the Booth Hotel Co. has been awarded to the WELLS BROS. CO., 407 Lowry Bldg., St. Paul. The cost is estimated at $2,000,000. Mark Fitzpatrick, 17 West Ninth St., is Arch.

✚Coffeyville, Kan.—The contract for the construction of a two-story 96x143-ft. brick and steel terminal building for the Union Traction Co. has been awarded to CLEMENTS & LAVERY. The estimated cost is $40,000. Austin Allen, 1212 Scarritt Bldg., Kansas City, Mo., is Arch.

✚Salina, Kan.—The general contract for the construction of a two-story, 108x122-ft., brick and concrete church for the First M. E. Church has been awarded to J. O. BROWN, Arkansas City, at $40,000. A. G. Bennett is Pastor. Wm. T. Schmitt, Oklahoma City, is Arch. Noted July 22.

Omaha, Neb.—Plans are being prepared by George B. Prinz, Arch., Omaha National Bank Bldg., for the construction of a seven-story Masonic Temple at 19th and Douglas St. The estimated cost is $350,000. Noted June 10.

✚Grand Forks, N. D.—The contract for the construction of an addition to the Y. M. C. A. building has been awarded to DINNIE BROS., Grand Forks Estimated cost, $40,000. Noted May 27.

Fulton, Mo.—At a recent election the citizens voted in favor of issuing $55,000 in bonds. The proceeds will be used for the construction of a school.

Jennings, Mo.—(St. Louis post office)—Plans are being prepared by Barnett, Haynes & Barnett, Arch., 949 Century Bldg., St. Louis, for the construction of a group of buildings near Jennings for the Jesuit Province of Missouri. The cost is estimated at $400,000.

Kansas City, Mo.—It is reported that plans are being drawn for the construction of a brick and reinforced-concrete hotel at 2223-25 Grand Ave. for the Frederick Realty & Investment Co. Fred C. Merry, 1009-11 Walnut St., is Pres. The estimated cost is $150,000.

✚Kansas City, Mo.—The contract for the construction of a three-story, 77x113-ft., brick and reinforced-concrete hotel at 1416 Central St., for Neuer Bros., 1326-28 Main St., has been awarded to AIKEN & THAYER, 501 Shukert Bldg., at $60,152. Frederick H. Michaelis, 113 McGee St., is Arch.

Cleveland, Tex.—(Official)—All bids have been rejected by G. O. Bartle, Pres., School Bd., for the construction of a school. Noted June 17 and Aug. 26.

Lubbock, Tex.—The Commissioners' Court has ordered an election for Sept. 18 to vote on issuing $100,000 bonds, the proceeds to be used for building a new court house.

Nacogdoches, Tex.—At a recent election the citizens of Nacogdoches Independent School District voted in favor of a bond issue of $45,000. The proceeds will be used for the construction of a school. Noted Aug. 19.

✚Edmond, Okla.—The contract for the construction of a library and classroom at the Central State Normal School has been awarded to KREIPKE & SCHAFER, El Reno, Okla., at $46,500.

Colorado Springs, Colo.—Plans are being prepared for the construction of an addition to the Union Printers Home, for the International Typographical Union. Marsden G. Scott is Pres. The estimated cost is $50,000.

Denver, Colo.—The Directors of the Children's Hospital plan to construct a four-story hospital at 19th and Downing St. Estimated cost, $210,000. Mrs Edith M. Burger is Pres. of the hospital.

✚Miami, Ariz.—E. GARFIELD has been awarded the contract for the construction of a high school. Trost & Trost, Mills Bldg., El Paso, Tex., is Arch. The estimated cost is $70,000. Noted May 20.

Seattle, Wash.—Bids will soon be received by George W. Lawton, Arch., Alaska Bldg., for the construction of a three-story, brick and terra cotta Masonic temple to cost $125,000.

Tacoma, Wash.—Plans have been prepared by Luther Twitchell, Arch., Savage-Scofield Bldg., for the construction of a three-story, reinforced-concrete addition to the Bankers Trust Bldg., Pacific Ave. The estimated cost is $65,000.

✚Walla Walla, Wash.—The contract for the construction of St. Mary's Hospital has been awarded to W. J. BEEZER. The estimated cost is $250,000. Noted May 6, June 3 and July 15.

The Walter A. Zelnicker Supply Co., St. Louis, Mo., has purchased the goodwill and stock of the Bintliff Supply Co. The latter company did a general railroad, mill and factory supply business and specialized in the manufacture of railroad track tools.

The Webster & Perks Tool Co., Springfield, Ohio, has consolidated with the Bauroth Machine & Tool Co., Toledo, Ohio, and has moved the machinery and equipment of the latter plant to Springfield.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS—STEAM AND ELECTRIC

New York—Columbus & Mayville R.R. Co. granted franchise for railway through Columbus Township, Mayville. C. P. Northrup, Corry, Penn., Pres.

New York—New York State Rys. asked for franchise to extend Elm St. Line, Utica. B. E. Tilton, Utica, Gen. Mgr. Noted Aug. 5.

Pennsylvania—Eastern Pennsylvania Rys. Co. plans expenditure of $216,000 for improvements, including two-mile extension from Nichols St., Pottsville, to St. Clair. W. B. Rockwell, Pottsville, Mgr. and Pur. Agt.

Maryland—Chambersburg, Greencastle & Waynesboro St. Ry. Co. plans extension from Blue Ridge Summit to either Thurmont or Emmitsburg, eight or 10 miles. D. B. Fretz, Chambersburg, Penn., Pres.

Maryland—Hagerstown & Frederick Ry. Co. considering proposition to extend line from Thurmont to Emmitsburg, Md., about seven miles. E. L. Coblentz, Frederick, Pres.

Virginia—Chester & City Point Electric Ry. Corporation incorporated to construct railway from Chester to Hopewell and City Point, nine miles. H. D. Eichelberger, Pres.

West Virginia—Monongahela Traction Co. has made preliminary survey for extension from Fairmont to Glenville. S. B. Miller, Fairmont, Ch. Engr. Noted Sept. 2.

North Carolina—Watauga & Yadkin River R.R. contemplates extension from Darby to either Blowing Rock or Boone. H. C. Landon, North Wilkesboro, Gen. Mgr.

Georgia—Adams & Sturm, Columbus, Ohio, is interested in proposed Atlanta-Carolina Electric Ry. from Atlanta to Augusta, Ga.

Alabama—Alabama & Mississippi R.R. plans to extend line from Vinegar Bend, Ala., to Evanston, Miss. N. E. Turner, Vinegar Bend, Pres.

Louisiana—Krause & Managan Lumber Co. plans tramroad, 3½ miles long with two miles of spur track, on timber land at Gillis.

Kentucky—Louisville & Nashville R.R. is surveying for a line from Ermine along Colly Creek to coal and timber tracts. W. H. Courtenay, Louisville, Ch. Engr.

Ohio—Cleveland Ry. has asked for a franchise for a line on State Road through Brooklyn Township. G. L. Radcliffe, Cleveland, Gen. Mgr.

Ohio—West End Rapid Transit Co., recently incorporated, will construct railway from Anderson's Ferry to the intersection of Third and Vine St., Cincinnati, to furnish an entrance to the city for the Cincinnati, Lawrenceburg & Aurora Electric St. R.R. Co.

Indiana—Plans being considered for an electric railway from Fisher's Station to Marion, via Noblesville, Perkinsville and Elwood.

Wisconsin—S. C. Lingelbach, Milwaukee, is interested in railway from Green Bay to Sheboygan via Manitowoc.

✚**Wisconsin**—Badger Ry. & Light Co. awarded contract for completing local and interurban street railway system to C. E. COON & CO., Cleveland, Ohio.

Minnesota—St. Paul Southern Electric Ry. Co. asked to construct a railway from Inver Grove to St. Paul Park, northward to Red Rock. W. L. Sonntag, St. Paul, Gen. Mgr.

North Dakota—Midland Continental R.R. plans to extend line from Wimbledon to Grand Forks. J. M. Mall, Pres.

South Dakota—Great Northern Ry. plans railway from Sioux Falls to Denver, Colo. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

✚**Montana**—Chicago, Milwaukee & St. Paul Ry. awarded contract for railway from Three Forks to Radersburg, Mont., to CLIFTON, APPLEGATE & CO., Spokane, Wash. C. F. Loweth, Chicago, Ch. Engr.

Montana—Great Falls & Southwestern Ry. incorporated to construct railway from Ulm to Hound Creek, east of Great Falls, about 60 miles.

Montana—Surveys being made for a railway from Nye to Cook, Mont.

Missouri—Ozark Ry. Co. will issue $125,000 bonds and $250,000 stock for line from Missouri to Arkansas.

Missouri—Project for Nevada, Lebanon & Eastern R.R. between Lebanon and Nevada is being revived. S. W. Thompson interested.

Oklahoma—St. Louis & San Francisco R.R. plans to enlarge its yards at Afton. F. G. Jonah, St. Louis, Ch. Engr.

Texas—Galveston, Harrisburg & San Antonio Ry. granted permission for industrial track over C. H. Milby property. W. B. Scott, Houston, Pres.

Arizona—Atchison, Topeka & Santa Fé Ry. will construct line from Seligman to Bagdad district, tapping Hillside mining district. J. A. Jaeger, Prescott, Ch. Engr.

Washington—Oregon-Washington R.R. & Navigation Co. plans railway between Point Defiance Line and Olympia. Estimated cost, $500,000. J. R. Holman, Portland, Ore., Ch. Engr.

Washington—O. R. Vahl is interested in a railway from Chelan to Aurelia Crown Mine near Stehekin.

California—Oakland, Antioch & Eastern Ry. plans to extend line to Martinez. H. A. Mitchell, San Francisco, Sec. and Gen. Mgr.

California—Right-of-way being secured by Hermosa Beach Chamber of Commerce for railway to connect with Pacific Electric Ry. at Belvidere.

California—McCloud Lumber Co. will extend its logging road six miles to a point near Pummoce Mountain, Bartle.

California—Mammoth Copper Co. considering plans for a two-mile electric line.

California—Mineral Products Co. will construct railway from Patterson to Red Mountain through Del Puerto Canyon to Magnesite and Manganese Mines.

LIGHT, HEAT AND POWER

Bar Harbor, Maine—Town has decided to establish municipal electric-light plant.

✚**North Gorham, Maine**—Cumberland County Power & Light Co., Portland, awarded contract for 300-ft. dam across the Presumpscot River at North Gorham to H. P. CUMMING CONSTRUCTION CO., Ware, Mass. Noted Aug. 12.

✚**Bridgeport, Conn.**—Bridgeport Projectile Co. awarded contract for one-story, brick and steel boiler house on Connecticut Ave. to SAMUEL AUSTIN & SONS CO. Cost, about $20,000.

★**Buffalo, N. Y.**—(Official)—Bids will be received until 2:30 p.m., Sept. 24, by E. S. Elwood, Secy., State Hospital, Conn., Capitol, Albany, for additional boiler and heating work at Buffalo State Hospital.

★**New York, N. Y.**—(Official)—Bids will be received until 11 a.m., Sept. 28, by Board of Water Supply, Municipal Bldg., for electrical operating equipment for gang-driven valves and sluice gates at Ashokan, Kensico, Hill View and Silver Lake reservoirs. Charles Strauss is Pres., Bd. of Water Supply.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Department of Public Charities, Municipal Bldg., until 10:30 a.m., Sept. 22, for steam heating system at Greenpoint Hospital.

Niagara Falls, N. Y.—Niagara Falls Power Co. is preparing plans for three additional units to its power plant. Estimated cost, $1,000,000.

Rochester, N. Y.—Taylor Instrument Co. will build 58x70-ft. boiler house at 95 Ames St. Estimated cost, $10,000. A. S. Crocker, Arch.

Bloomfield, N. J.—International Arms & Fuse Co. has plans for a power plant in connection with its new factory on Grove St.

Winchester, Va.—Reported that a municipal electric-light plant is under consideration. Dr. Hunter H. McQuire is Chn. of Light Com.

Columbus, Ga.—City considering municipal electric-light plant. W. C. Campbell is City Engr.

✚**Cincinnati, Ohio**—Building Commission of new courthouse awarded contract for mechanical equipment, including complete power plant and other electrical equipment, to STANDARD ENGINEERING CO., at $203,855. S. Franklin Gardner, Engr.-in-Charge.

✚**Shelby, Ohio**—Contract for a municipal electric-light and heating plant awarded to JOSEPH L. SKELDON, Toledo.

Mt. Pleasant, Mich.—City Council considering the purchase of plant and equipment of the Consolidated Light & Power Co.

Ashland, Wis.—Plans being prepared by Henry Wildhagen, Arch., for new electric-light plant for Ashland Light, Power & St. Ry. Co. Estimated cost, $75,000.

Davenport, Iowa—City Council granted permission to People's Lighting Co. to lay pipe for entire new steam heating system in the business section.

Jolley, Iowa—Council contemplates a municipal electric-light plant.

Maquoketa, Iowa—Citizens will vote Sept. 28 on franchise for the newly organized Consumers' Electric Co. L. B. Carson is interested.

Redwood Falls, Minn.—Wherland Electric Co. contemplates enlargement of its plant. R. F. Wherland, Secy. and Mgr.

Slayton, Minn.—Slayton Power Co. will enlarge its plant. Equipment will include 100-hp. engine, either oil, steam or gas-producing, generator and switchboard, and six miles of transmission line. F. H. Eddy is Mgr.

Marion, Kan.—Plans completed for a municipal power house to replace one recently destroyed by fire. Estimated cost, $5,000.

Milan, Kan.—City Council has engaged Nathan L. Jones, Smith Bldg., Wellington, to prepare plans for contemplated municipal electric-light plant.

Laurel, Neb.—Citizens voted to issue $12,000 bonds for a municipal electric-light plant.

Mason City, Neb.—Bids will be received until Sept. 17 by John T. Wood, Village Clk., for a brick power station, 25-hp. oil engine, 15-kw., 125- to 250-volt direct-current generator, switchboard and storage battery.

Towner, S. D.—C. S. Rygh, Alexandria, Minn., has asked a 20-year franchise for an electric-light plant, city to have the privilege of purchasing plant at the end of that period.

Leola, S. D.—Town contemplates an electric-lighting system.

Alexander, N. D.—Citizens contemplate an electric-light system.

Flaxton, N. D.—Franchise granted to Harley E. Potter, Bowbells, N. D., for electric-light plant.

Douglas, Wyo.—Franchise granted to H. G. Hess for gas plant. Plans being prepared. Estimated cost, $50,000.

✚Canyon, Tex.—Contract for heating and plumbing equipment in West Texas Normal School awarded to DONNELLY & WHITE, at $63,318.

✚Denton, Tex.—Contract for power plant for North Texas Normal School awarded to J. A. JOHNSON at $12,700; contract for heating and plumbing awarded to KENNISON BROS., at $14,327.

Spire, Okla.—Bonds for $10,000 sold for a gas plant and laying mains.

Pocatello, Idaho—North American Power & Light Co. purchased plant of Pocatello Gas Co. and will expend about $100,000 to enlarge and improve it. William A. Baehr, Gen. Mgr.

Albion, Utah—Citizens voted $8,000 bonds for light and power plant.

Calexico, Calif.—Plans being prepared by Holton Power Co. for new substation to replace present one. W. F. Holt, Redlands, Pres.

✚Hull, Que.—City Council awarded contract for hydro-electric plant to CANADIAN GENERAL ELECTRIC CO., 23 Sparks St., Ottawa, Ont., at $38,840.

Beeton, Ont.—Town Council contemplates purchase of new boilers and power house equipment. Joseph Wright, Clk.

Brigden, Ont.—C. C. Watson, Brigden, preparing plans for improving electric-light plant including new engine, dynamo and other equipment. Estimated cost, $10,000.

Chatham, Ont.—Reported that J. G. Jackson, Mgr. of Chatham Hydro-Electric System, has recommended purchase of electrically-operated equipment for water pumping station.

Granton, Ont.—Town Council plans a new hydro-electric system. Cost, about $5,000. W. D. Stanley, Clk.

St. Thomas, Ont.—Hydro-Electric Commission will build new power house and transmission station on Gas St.

BRIDGES

✚Berlin Mills, N. H.—City awarded contracts for reinforced-concrete bridge to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass., for masonry, and to BOSTON BRIDGE WORKS, 47 Winter St., Boston, Mass., for steelwork. Cost, $25,000.

Holyoke, Mass.—Reported that city will build new bridge over tracks of Boston & Maine R.R. at foot of Dwight St. T. J. McCarthy, City Engr.

✚Salem, Mass.—City Council awarded contracts for abutments and piers of a bridge across the South River to GEORGE T. RENDLE, Boston, at $28,404.

★✚Bridgeport, Conn.—Bids for the concrete girder bridge with double-leaf bascule span at Stratford Ave. received Sept. 5 as follows: Toole & Sunderlin, Bridgeport, $468,570; Empire Construction Co., New York, N. Y., $469,198; H. P. Converse Co., Boston, $471,483. Bids for bascules only were: Toole & Sunderlin, $91,753; Strebel Steel Construction Co., $95,800; Empire Construction Co., $109,265. Noted July 22 and Aug. 19.

✚Hartford, Conn.—(Official)—Board of Contract and Supply awarded contract for three-span, reinforced-concrete bridge over Park River at Capitol Ave. to W. T. RYAN CONSTRUCTION CO., 129 Barker St., Hartford, at $39,420. Noted Aug. 26.

Hartford, Conn.—Bids will be received until 11 a.m., Sept. 21, by Board of Contract and Supply for reinforced-concrete bridge at Montowese St. R. N. Clark, City Engr.

Buffalo, N. Y.—Common Council opened bids Sept. 3 for rebuilding Chicago St. Viaduct as follows, (a) complete in six months, (b) complete in nine months: Lackawanna Bridge Co., Buffalo, (a) $211,000, (b) $209,500; Lupfer & Remick, Buffalo, (a) $198,500, (b) $197,500; American Bridge Co., Buffalo, (a) $204,500, (b) $202,900; Strobel Steel Construction Co., Chicago, Ill., (a) $184,700, (b) $183,000. Noted June 24.

Montgomery, N. Y.—Town taxpayers defeated an appropriation of $4000 for a bridge across Tin Brook in Town of Walden.

New Brunswick, N. J.—(Official)—Bids will be received until 2 p.m., Sept. 20, by Edward Burt, County Collector, for $69,000 bridge bonds.

Curwensville, Penn.—Reported that Clearfield & Mahoning R.R. will build a bridge over Anderson Creek near Curwensville.

✚Doylestown, Penn.—Commissioners of Bucks County awarded contract for bridge over Trout Run and one over Fall Creek to S. J. CLARK, Morrisville.

Harrisburg, Penn.—(Official)—Citizens will vote at November election on $300,000 bonds for viaduct over tracks of Pennsylvania R.R. at Walnut St. Noted July 8.

✚Lebanon, Penn.—City Council awarded contract for three concrete bridges and one iron girder bridge to FRICK & SONS, Guilford St., Lebanon, at $5860. Noted Aug. 12.

Philadelphia, Penn. — State Water - Supply Commission granted permission to the city to build a bridge across Frankford Creek at Torresdale Ave. M. L. Cooke, Comr. of Pub. Wks.

✚Uniontown, Penn.—Commissioners of Fayette County awarded contracts for bridge work as follows: CONNELLSVILLE IRON WORKS, steel superstructures of bridge over Middle Run at Gates in German Township, and bridge over Dunlap's Creek at Merrittstown in Luzerne Township; LOUIS COSTA, Dickerson Run, substructure of Merrittstown Bridge, and bridge over Dickerson Run at Vanderbilt; J. M. RAMAGE, Uniontown, bridge at Gates. Noted Aug. 12.

Chester, Va.—Chester & City Point Electric Ry. H. D. Eichelberger, Pres., contemplates a 185-ft. drawbrid across the Appomattox River.

Beaufort, S. C.—(Official)—Bids will be receive until 10 a.m., Oct. 12, by W. H. Hull, Secy., County Bd. of C s. for repairs to two piers of Whale Branch Bridge, an new 120-span steel or concrete highway bridge between Helena and Ladies Islands. Shand Engineering Co., Colum S. C., Engr.-in-Charge.

Macon, Ga.—(Official)—Central of Georgia Ry. build concrete subway to carry Pine St. under its tracks. mated cost, $81,000. Noted Sept. 2.

✚Johnsonville, Tenn.—(A correction)—Nashville, Chattanooga & St. Louis Ry. awarded contract for the superstructure of a steel drawbridge over the Tennessee River to LOUISVILLE BRIDGE AND IRON CO., Louisvile, Ky., and contract for erection of the bridge to GOULD CONTRACTING CO., Nashville. Noted Sept. 2.

Eaton, Ohio—Bids will be received until noon, Sept. 25, by G. W. Rehfuss, Audr., Preble County, for substructure and superstructure of bridge over Little Creek on the new Garrish and Eldorado Rd. near Mackey and Braggs, Jefferson Township.

New Lexington, Ohio—(Official)—Board of Commissioners, Perry County, to build bridge over South Fork of Jonathan Creek on New Lexington and Zanesville Inter-County Rd. at Stringtown in Harrison Township. Clyde M. Foraker, County Audr.

✚Portsmouth, Ohio—Commissioners of Scioto County awarded contract for floor and approaches of new Scioto County Bridge to COLEGROVE & WEST, at $16,410.

Indianapolis, Ind.—Council of Marion County will be asked, at its September meeting, to appropriate the sum of $100,000 for bridge over Fall Creek at Senate Ave.

Detroit, Mich.—Lowest bid received for the temporary Belle Isle Bridge was that of Bohland Structural Steel Co., Detroit, at $43,075. Noted Aug. 19.

✚Grand Rapids, Mich.—(Official)—Contract for bridge over tracks of Grand Trunk Ry. at College Ave., N. E., awarded to D. W. BOYES, Grand Rapids, at $12,908. Noted Sept. 9.

Benton, Ill.—Bids will be received until 1 p.m., Sept. 17, by State Highway Commissioner, Springfield, for four bridges in Franklin County, 30 to 75 ft. long. George F. Hampton, Benton, County Supt. of Highways.

✚Carlinsville, Ill.—(Official)—State Highway Commission, Springfield, awarded contract for the Sitton Bridge in County Line Township, Macoupin County, to ILLINOIS STEEL BRIDGE CO., Jacksonville, at $6430.

✚Chippewa Falls, Wis.—Contract for a double-arch reinforced-concrete bridge at East Spring St. awarded to THOMAS E. WOOLEY, LaCrosse, at $7,947.

Grand Rapids, Wis.—Bids will be received until 1:30 p.m., Sept. 18, by B. M. Vaughn for nine highway bridges in Wood County Drainage District, to be of concrete, reinforced concrete or steel. Estimated cost, $14,000.

✚Orange City, Iowa—(Official)—Supervisors of Sioux County awarded contract for bridge over Sioux River on the state line, two miles below Hudson, S. D., to DES MOINES BRIDGE AND CONSTRUCTION CO., Des Moines, at $7637. Noted Aug. 12.

✚Brainerd, Minn.—(Official)—Commissioners of Crow Wing County awarded contract for three bridges to MINNEAPOLIS BRIDGE CO., Minneapolis, at $4,459 for all three. Noted Sept. 2.

Granada, Minn.—Bids will be received until 8 p.m., Sept. 25, by E. W. Lasby, Village Recdr., for bridge across Center Creek.

✚Auburn, Kan.—Commissioners of Shawnee County, Topeka, awarded contract for bridge over West Wakarusa Creek, one mile from Auburn, to TOPEKA BRIDGE AND IRON CO., Topeka, at $6000.

✚Ellinwood, Kan.—(Official)—Commissioners of Barton County awarded contract for 400-ft. reinforced-concrete bridge across Arkansas River to MISSOURI CONSTRUCTION & BALLAST CO., Eldon, Mo., at $20,642. Noted July 22 and Aug. 19.

Leavenworth, Kan.—Bids will be received until Sept. 28 by J. E. Voorhees, Clk. of Leavenworth County, for 26 bridges. Estimated cost, $30,000. M. Thomas, County Engr.

✚St. Paul, Neb.—Commissioners of Howard County awarded contract for high truss steel bridge across the Loup River to CENTRAL STATES BRIDGE CO., Indianapolis, Ind., at $27,936. Noted July 29 and Aug. 12.

Camden, Ark.—Commissioners of Ouachita County are receiving bids for repairs to Martin Bridge, over Ouachita River. E. B. McCall, County Judge.

Little Rock, Ark.—Reported that Commissioners of Pulaski County will soon ask bids for widening and strengthening the Main St. Bridge.

✚Canadian, Tex.—Commissioners Court of Hemphill County awarded contract for 2,550-ft. bridge across Canadian River to CANTON BRIDGE CO., Kansas City, Mo., at $66,170. Noted Aug. 12.

✚Sherman, Tex.—Contract for 100-ft. bridge over Post Oak Creek near Sherman awarded to WESTERN BRIDGE CO., Sherman.

✚Terell, Tex.—Road Commissioners awarded contract for bridges and culverts to W. W. FULLER at $26,814. Bartlett Ranney, San Antonio, is Engr.-in-Charge.

Enid, Okla.—Bids will be asked about Sept. 27 by County Commissioners for 15 small bridges. Estimated cost, $20,000. Benjamin Lewis is Engr. of Garfield County.

✚Okmulgee, Okla.—Commissioners of Okmulgee County awarded contract for six small bridges to MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan., at $13,444.

Silver City, N. M.—Commissioners of Grant County awarded contract for steel bridge across Gila River near Old Ft. West, to EL PASO BRIDGE & IRON CO., El Paso, Tex., at $15,747. Noted July 29.

Tucson, Ariz.—Plans being prepared for new concrete bridge across Santa Cruz River. Estimated cost, $50,000. J. M. Ruthrauff, City Engr. Noted Nov. 26 and Dec. 3, 1914.

Wallace, Idaho—Plans completed for rebuilding bridges in Shoshone County. Estimated cost, $24,000. E. M. Booth, Boise, State Highway Comr.

Igo, Calif.—County Supervisors have awarded contract for reinforced-concrete bridge across Clear Creek to WILLIAM STEPHENS, Redding, at $6,166. Noted July 29.

Kennett, Calif.—Supervisors of Shasta County awarded contract for steel bridge across Sacramento River at Kennett to PORTLAND BRIDGE CO., Portland, Ore., at $15,976. City will furnish steel costing $1,750. Noted Aug. 5 under Redding.

Kingsburg, Calif.—Contract for bridge across Kings River at Kingsburg awarded to JOHNSON CO., Los Angeles, at $15,780. Noted Aug. 5 under Visalia, Calif.

Kincardine, Ont.—Council of Kincardine Township awarded contract for two bridges to DAVID KEYES, Kincardine, at $7,650.

Ottawa, Ont.—City Council awarded contract for substructure of Pretoria Ave. Bridge to RODERICK BREWDER, 317 Lyon St., Ottawa. Estimated cost of bridge, $31,000.

WATER SUPPLY—IRRIGATION

Kennebunk, Maine—Filters will be installed by York County Water Co. in Kennebunk, Kennebunkport and Wells. George M. West, Mgr.

South Braintree, Mass.—Contract awarded to HAMILTON FLOOD, Wollaston, for extensions to water system. Noted Aug. 12.

Windsor, Conn.—Contracts awarded to TIPPETT & WOOD, Phillipsburg, N. Y., at $12,170, for steel stand pipe, to A. LAMBO, Waterbury, at $40,112, for water mains and to F. H. HAYES MACHINERY CO., Boston, Mass., at $5,401, for pump. Noted Sept. 2.

Albion N. Y.—Plans prepared for new water supply at Eagle Harbor. J. F. Witmer, Buffalo, Consult. Engr.

Jamestown, N. Y.—(Official)—Bids will be received until noon, Sept. 23, by Board of Water and Light Commissioners, for ten 11-in. driven wells, about 185 ft. deep, and for equipment.

Manhasset, N. Y.—Contract awarded to W. G. FRITZ CO., Newark, N. J., at $24,422, by Carle Park Water Co. for water system.

New York, N. Y.—(Official)—Bids will be received by the Board of Water Supply, Municipal Bldg., until 11 a.m., Sept. 28, for electrical operating equipment for gang-driven valves and sluice gates at Ashokan, Kensico, Hill View and Silver Lake Reservoirs under Contract No. 11.

Oneida, N. Y.—Report of J. Wagner for soft water supply accepted by Water Commissioners. Estimated cost, $479,000.

Rotterdam, N. Y.—Contract awarded to H. J. CORBIN, New York, at $24,690, for pumping station.

Westbury, N. Y.—W. E. Sexton, Mineola, prepared plans for water district in Carle Place. Russel Suther, Conservation Comn., is in favor.

Collingswood, N. J.—Borough Council contemplates water system.

Green Lane, Penn.—Surveys being made for rebuilding Klondike dam.

Hatfield, Penn.—Contract awarded to PUGH & HUBBARD CO., Philadelphia, at $8,995 for water plant. Noted Aug. 12.

Philadelphia, Penn.—Bids will be received until Sept. 30 by Department of Public Works for turbo-centrifugal pumps at Shawmont Pumping Station and stokers' equipment at Queen Lane Pumping Station.

Reynoldsville, Penn.—Citizens voted $100,000 bonds for purchase or construction of water system. Noted Sept. 2.

Tamaqua, Penn.—(Official)—Bids will be received until noon, Oct. 5, by John M. Harris, Comr. of Water-Wks., for reservoir in Owl Creek, Rahn Township. Noted Aug. 12.

Youngsville, Penn.—Contract awarded to L. A. COATES & CO., Warren, at $22,000, for water-works.

Easton, Md.—Plans being prepared by Public Utilities Commission of Easton for improvements to pumping station. Estimated cost, $5,000.

Keyser, W. Va.—Citizens defeated bond issue of $35,000 for water system. Noted Aug. 5.

Wilson, N. C.—Bonds for $95,000 will be sold Sept. 20 for water mains. T. A. Hinnant, Clk. Bd. Town Comrs.

Coolidge, Ga.—(Official)—W. Hopson Goodloe, Engr., Macon, retained to prepare plans for water system and improvements to electric-light system.

Macon, Ga.—Contract awarded to SCHOFIELD IRON WORKS, Macon, at $5,100, for 180,000-gal. stand pipe.

Mt. Dora, Fla.—City Council will be petitioned by F. L. Barrett, Houghton, Mich., for franchise for water system.

Kosciusko, Miss.—Bonds for water and light systems voted. M. L. Culley, Jackson, Engr. W. G. Campbell, Mayor.

Oakdale, La.—City contemplates water system. R. E. L. Ricketts, Secy. of Comm.

Benton, Tenn.—Citizens will vote Oct. 30 on $10,000 bonds for water system. E. T. Switzer, Pres.

Maryville, Tenn.—Contract awarded to SOUTHERN CONSTRUCTION CO., Kansas City, Mo., at about $51,000, for water system.

Bellville, Ohio—(Official)—Bids will be received until Nov. 9 by the city for water system. Smith & Boulay Co., Toledo, Engr. G. Shaffer, Clk. Noted Aug. 26.

Brewster, Ohio—Bids will be readvertised for water system. Estimated cost, $21,000. Noted Sept. 2.

Cleveland, Ohio—Hydraulic Pressed Steel Co. will build pump house at 3020 East 61st St. Estimated cost, $5,000.

Farmersville, Ohio—(Official)—Bids will be received about Sept. 20 for water system. A. F. Gilbert, Clk. Noted Aug. 26.

Miamisburg, Ohio—Contract awarded to W. C. KERCHNER CO., Dayton, at $9,626, by Bd. of Public Affairs for water mains in Sennett St. and West Side.

Napoleon, Ohio—Contract awarded to G. W. DOERZBACH & CO., Sandusky, at about $35,000, for new filtration plant.

Silverton, Ohio—Contract awarded to JOHN KOEHL, Reading, for 6-in. water main in Alta Ave. and other streets.

Weston, Ohio—Citizens will vote Nov. 2 on bonds for water system.

Wilberforce, Ohio—(Official)—Bids will be received until 10 a.m., Oct. 1, by Board of Trustees, for improvements to water system. Richards Engineering Co., Wilberforce, Engr. W. A. Galloway, Pres.

Cairo, Ill.—City contemplates purchasing plant of Cairo Water Co. Estimated cost, $342,000.

Sparta, Ill.—Contract awarded to CARSON-PAYSON CO., Danville, at $17,000, for pumping and filtration plants. Noted Aug. 19.

Marcus, Iowa—Citizens voted in favor of $25,000 bonds for completion of water system.

Shenandoah, Iowa—Contract awarded to DES MOINES BRIDGE & IRON WORKS, Des Moines, at $12,300, for 400,000-gal. tank and tower.

Traer, Iowa—(Official)—Bids will be received until 8 p.m., Sept. 20, by T. F. Stoakes, Town Clk., for 200,000-gal. concrete storage reservoir and water mains. Charles P. Chase, Clinton, Engr. Noted Aug. 19.

Urbana, Iowa—(Official)—Bids will be received until 7 p.m., Sept. 20, by city for 60,000-gal. tank on 100-ft. steel tower and about 2,200 ft. of water mains, and pumping station. Ralph B. Slippy, Waterloo, Engr. J. Dean Burrell, Town Clk.

Carlton, Minn.—Plans prepared by Ferguson Engineering Co. for water system. Noted Sept. 9.

St. Cloud, Minn.—Plans have been prepared by C. H. West, City Engr., for extensions to water system.

Fromberg, Mont.—Bids will be received until Sept. 18 by C. J. Jones, Village Clk., for water system. B. C. Lillis, Billings, Engr. Estimated cost, $17,000. Noted July 29.

Judith Gap, Mont.—Contract awarded to C. H. KELLEY, Judith Gap, at $13,855, for water and sewer systems.

Plattsburg, Mo.—Citizens voted $50,000 bonds for improvements to water system and for three sewage-disposal plants. E. B. Murray, 820 Walnut St., Kansas City, Engr. Noted Aug. 19.

Lancaster, Tex.—Election will be held Sept. 27 to vote on $15,000 bonds, for water and sewer systems. J. V. Griffin, Mayor.

Lufkin, Tex.—City contemplates $4,000 for improvements to water system. H. B. Satterfield, Secy.

Albion, Idaho—Bonds for water system will be sold Sept. 25. Thomas E. Harper, Village Clk.

Salt Lake City, Utah—Plans being prepared for dam in Parley's Cañon for water storage. Estimated cost, $100,000.

Aberdeen, Wash.—(Official)—City will build water system. P. F. Clark, City Clk. Noted Aug. 19.

Harrington, Wash.—Contract awarded to SAWYER BROS., Spokane, at $10,000, for water and sewer systems.

Raymond, Wash.—Raymond Water Co. purchased by city. Plans being prepared for extensions. Estimated cost, $10,000.

Ridgefield, Wash.—(Official)—We have been advised that election will be held in fall for $10,000 bonds for water system. J. W. Blackburn, Town Clk. Noted Sept. 2.

La Grande, Ore.—Dam at intake of Beaver Creek will be built by day labor. L. F. Howland, City Engr. Estimated cost, $10,000.

Arcadia, Calif.—(Official)—Contract awarded to R. F. WARE, 1001 Marsh Strong Bldg., Los Angeles, for backfilling 20 miles of water main trenches. Noted Aug. 26.

Oakdale, Calif.—Oakdale and South San Joaquin Irrigation Districts plan reservoir. Estimated cost, $1,250,000.

San Rafael, Calif.—Citizens of Marin County voted $3,000,000 bonds for purchasing water systems in southern part of county. Noted July 29.

Santa Monica, Calif.—City plans to purchase water companies at estimated cost of $712,000. Election will be held Dec. 7.

St. Hyacinthe, Que.—City will install two pumps, boilers, motors at water-works. H. E. Wardroper, Clk. Estimated cost, $75,000.

Chatham, Ont.—City will install two electrically driven centrifugal pumps of 2,000,000 and 3,000,000 gal. capacity at water-works. Estimated cost, $4,000.

Galt, Ont.—Citizens voted $40,000 bonds for water system.

Owen Sound, Ont.—Council contemplates spending $5,000 for high pressure water main from Eighth St. west to 14th St. Charles Gordon, Clk.

Stratford, Ont.—City Council has authorized steel standpipe and pumping plant. Estimated cost, $50,000. Noted June 17.

Prince George, B. C.—Citizens voted in favor of $80,000 bond issue for water system. Noted Sept. 9.

SEWERS

✚Amherst, Mass.—Contract awarded to JAMES L. BRINE, Boston, for south outlet of river sewer system; contract for pipe to R. D. WOOD & CO., Philadelphia.

East Gardner, Mass.—(Gardner post office)—All bids received Aug. 18 for sewer system for Gardner State Colony by State Board of Insanity, State House, Boston, have been rejected. Work will be done by superintendent. Noted Aug. 12.

Leominster, Mass.—Plans being prepared by John J. Van Valkenberg, Framingham, for sewage-disposal plant.

Southington, Conn.—Citizens voted $25,000 bonds for completing sewer system.

Brockport, N. Y.—(Official)—Bids will be received until 8 p.m., Sept. 17, by Board of Trustees for sewage-disposal works. Charles C. Hopkins, Cutler Bldg., Rochester, Engr. Estimated cost, $25,000. Noted Aug. 9 and Sept. 9.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Sept. 8 for repairs to Foster Ave. sewer as follows: Pelgrine Construction Co., $2,052; D. J. Donlin, $3,150, and O'Conner Co., $3,700, and for sewer basin at E. 13th St. and Ave. P, Murphy Bros., 25th St. and Cropsey Ave. Brooklyn, 4%. Noted Sept. 2.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Contracts awarded to FRANK MERRIDINO, 556 A 17th St., Brooklyn, for sewers in Glenmore and Railroad Ave., Pine and Hemlock St., William and Vienna Ave., and West St., and to MURPHY BROS., 25th St. and Cropsey Ave., Brooklyn, for sewers in New Jersey and Hegeman Ave. Noted Sept. 9.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by C. B. J. Snyder, Supt. School Bldgs, Park Ave. and 59th St., until 3 p.m., Sept. 20, for sewers and water mains at Manhattan Trade School for Girls, Lexington Ave. and East 22nd St.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received Sept. 9 for sewer in Ellwood as follows: Walton Contracting Co., 147 East 125th St., New York, $4,939; Di Minno & De Blasio, $4,997 and Briggs & McLaughlin, $4,984. Noted Sept. 2.

New York, N. Y.—(Borough of Richmond)—Bids were received Sept. 7 for sewage-disposal plant at Richmond County Jail: Joseph Johnsons Sons, 455 Broadway, West New Brighton, Borough of Richmond, $4,434; J. E. Donovan, $6,691; F. N. Lewis, $5,373. Noted Sept. 2.

Seaside Park, N. J.—Bids will be received until Sept. 24 by Borough Council for sewers and disposal plant. Remington & Vosburg, 501 Market St., Camden, Engr. Frank Brockway, Clk.

✚South Orange, N. J.—(Official)—Contract awarded to PASQUALE MAURIELLO, 122 Center St., Orange, at $11,000, for sanitary sewers in Milburn Ave. Noted Aug. 19.

✚Philadelphia, Penn.—Contracts awarded to FRANK MARKS CONSTRUCTION CO., at $65,000, for extension of Gunner's Run relief sewer in Indiana St. and to ROBERT HIGGINS, at $27,000, for sewer in Adams Ave.

✚Philadelphia, Penn.—Contract awarded to R. P. BENNIS CONSTRUCTION CO., Philadelphia, at $18,500, for sewer in Broad St. from 68th to 69th St.

Philadelphia, Penn.—Plans completed for improving sewage-disposal system for Oak Lane District. George N. Webster, Ch. Bureau of Surveys. Estimated cost, $91,500.

Rockville, Md.—Ezra B. Whitman, Fidelity Bldg., Baltimore, retained to prepare plans for sewer systems in Friendship Heights, Somerset, Drummond, Bethesda, Woodmont, Edgewood and Chevy Chase. Estimated cost, $83,000.

Richmond, Va.—Administrative Board contemplates expenditure of $47,000 for completing sewer system in Scott's Addition. Charles E. Bolling, City Engr.

Suffolk, Va.—Council contemplates issuing $70,000 bonds for sewer system, paving, school and fire department.

Keyser, W. Va.—Citizens defeated $35,000 bonds for sewer in New Creek. Noted Aug. 5.

✚Asheville, N. C.—Contract awarded to REED & WELLS for three lines of sewers.

✚Winston-Salem, N. C.—Contract awarded to L. B. BRECKENSTEIN, at $5,500 for sewers in West Salem sewer district. Noted Sept. 9.

Columbia, S. C.—Election will be held Oct. 5 to vote $300,000 bonds for sewers.

Greer, S. C.—Citizens voted $10,000 bonds for extending sewer system.

Athens, Ga.—City contemplates septic tank for sewer system. J. W. Barnett, City Engr.

Miami, Fla.—Bonds for $50,000 for sewers and streets sold. Noted Aug. 19.

✚Hammond, La.—(Official)—Contract awarded to J. R. SUTHERLIN & CO., Kansas City, Mo., at $40,000, for sewer system. Noted Sept. 2.

New Iberia, La.—Election will be held to vote $100,000 bonds for sewer system. Noted Aug. 26.

Lexington, Ky.—Election will be held in November to vote $350,000 bonds for sewer system. J. Ernest Cassidy, Mayor.

Akron, Ohio—(Official)—McAlonan Bros., Akron, low bidder at $4,110, for sewer work. J. A. Gehres, City Engr. Noted Aug. 19.

Cincinnati, Ohio—Bids will be received until noon, Sept. 24, by Philip Fosdick, Dir. of Pub. Ser., for sewer in Duck Creek, Intercepter No. 3.

✚Cleveland, Ohio—Contract awarded to BROOKSIDE CONSTRUCTION CO., at $17,529, for sewer in Bessemer Ave., S. E., and in East 65th St.; contract also to MANSON CO., at $67,282, for sewers.

✚Cleveland, Ohio—(Official)—Contract awarded to GREAT LAKES DREDGE & DOCK CO., Williamson Bldg., at $92,900, for concrete open channel outfall sewer about 3,600 ft. long. Noted Sept. 2.

Cuyahoga Falls, Ohio—Council will build sanitary sewers and laterals in Stow, Front and East Broad St.

Glendale, Ohio—(Official)—Bids will be received until noon, Sept. 27, by Ernst Von Bargen, City Pur. Agt., for sewage-disposal system for Boys' Opportunity Farm.

Lancaster, Ohio—Plans for sewers in Cherry St. and Bank Alley submitted to Council. Jacob Lutz, Chn. Sewer Com.

Sandusky, Ohio—E. Wagner, City Engr., recommends building intercepting sewer No. 2 Estimated cost, $98,000.

Springfield, Ohio—Press reports state bids will be received about Sept. 25 for storm sewer in Lowry Ave. Estimated cost, $6,500. Noted Sept. 9.

Toledo, Ohio—Bids will be received until noon, Sept. 24, by Charles J. Zanenbacher, Audr., Bd. of Lucas County Commrs., for local sanitary sewer No. 12 in Sub-district No. 1.

✚Toledo, Ohio—Contract awarded to CLEVELAND CONTRACTING CO., at $4,578, for five sewers and to GLESSNER & COTHRED, at $5,210, for one sewer. Noted July 29.

Peru, Ind.—Plans prepared for Tippecanoe St. sewer.

Ann Arbor, Mich.—(Official)—Bids will be received until Sept. 22 by Board of Public Works for 17,500 ft. of 8- to 12-in. and 2,500 ft. of 15- to 36-in. sewers and 1,300 ft. of concrete culvert. Manley Osgood, City Engr.

New Baltimore, Mich.—Citizens contemplate sanitary and storm water sewer systems. C. F. Meeks, Health Officer.

Alton, Ill.—City plans East Side trunk sewer.

✚Christopher, Ill.—Contract awarded to C. M. HANES, Jerseyville, at about $50,000, for sewer system.

Ashland, Wis.—Bids being received by Board of Public Works for 4,200 ft. 8-in. vitrified pipe sewer.

✚Racine, Wis.—Contract awarded to E. R. HARDING & CO., for sewers in various streets. Noted Aug. 19.

Ames, Iowa—Bids will be received until 7 p.m., Sept. 20, by A. B. Maxwell, City Clk., for 20,000 ft. of storm sewers in various streets, and for purchase of 11,000 ft. of vitrified clay sewer pipe. Noted Aug. 12.

✚Decorah, Iowa—Contract awarded to MOORE-SIEG CONSTRUCTION CO., Waterloo, at $101,789, for sewer system and sewage-disposal plant. F. M. Hughes, City Clk.

Lyle, Minn.—Bids will be received until Sept. 27 by Village Council for 12,246 ft. of 8- to 15-in. sewers. G. A. Martin, Village Recdr.

✚Chanute, Kan.—Contract awarded to SOUTHERN CONSTRUCTION CO., Wichita, at $23,917, for sewage-disposal plant. Noted Aug. 12 and Sept. 2.

✚Hutchinson, Kan.—Contract awarded to EVERETT & BURKE, at $4,668, for two miles sewers. Noted July 29.

✚Independence, Kan.—Contract for sewer system awarded to GREEN & CULLEN, Independence, at $6,637. George E. Weaver, City Engr.

✚Crofton, Neb.—Contract awarded to SCHREIBER & PETERSON, Bee Bldg., Omaha, at $6,553 for sewer system and disposal plant. Noted Aug. 19.

✚Norfolk, Neb.—Contract awarded to NORFOLK BRIDGE AND CONSTRUCTION CO., Norfolk, at $15,000, for storm sewers.

Minot, N. D.—Plans prepared for storm sewers in various streets. Estimated cost, $13,708.

✚Judith Gap, Mont.—See item under "Water Supply-Irrigation."

Austin, Tex.—Citizens contemplate issuing $50,000 bonds for sewers.

Beaumont, Tex.—Citizens voted $40,000 bonds for sewers.

Lancaster, Tex.—Election will be held Sept. 27 to vote $15,000 bonds for extending sewer and water systems. J. V. Griffin, Mayor.

Weleetak, Okla.—Citizens voted $37,000 bonds for sanitary sewer system.

Seattle, Wash.—Bids will soon be received for sewers in North and West 48th St. Estimated cost, $10,435. Noted Sept. 19.

Seattle, Wash.—Council contemplates sewers in Block 63, Mt. Baker Park. A. H. Dimock, City Engr.

Marysville, Calif.—Bonds for $18,000 voted for sanitary improvements in Ellis Lake district.

✚San Francisco, Calif.—Contract awarded to F. OLANDI, at $29,554, by Board of Public Works for sewer in Islais Creek.

Montreal, Que.—City Council contemplates appropriating $10,000 for preparation of plans for trunk sewer. Estimated cost, $1,500,000.

Berlin, Ont.—Plans being prepared by Herbert Johnston, Berlin, for sewer extensions. Estimated cost, $75,000.

Preston, Ont.—Plans being prepared for sanitary sewer in King St. H. G. Edgar, Clk.

GARBAGE

Greystone Park, N. J.—Bids will be received until Sept. 22 by O. M. Bowen, Warden, New Jersey State Hospital, for incinerator.

Morris Plains, N. J.—Bids will be received until 11 a.m., Sept. 22, by Board of Managers of New Jersey State Hospital for incinerator.

Americus, Ga.—City contemplates building incinerator.

✚Rock Island, Ill.—It is reported contract awarded to SPARKS CREMATORY CONSTRUCTION CO., Memphis, Tenn., at $12,200 for incinerator. Noted Aug. 26.

Marble Falls, Tex.—City will build incinerator.

STREETS AND ROADS

Augusta, Maine—James McGregor, Rumford, at $11,883, submitted lowest bid for 2.1 miles of state highway in Poland.

Boston, Mass.—Bids will be received until Sept. 21 by State Highway Commission, 15 Ashburton Pl., for 12,400 lin.ft. of road in Granby and South Hadley. Arthur W. Dean, Ch. Engr.

Boston, Mass.—Bids will be received until noon, Sept. 24, by Park Board for grading, walks, etc., in Renah Park, Dorchester.

Boston, Mass.—Bids will be received until noon, Sept. 20, by Edward F. Murphy, Comr. of Pub. Wks., for artificial stone sidewalks on Cushing Ave., Jerome St. and Windermere Rd., Dorchester.

Boston, Mass.—Bids will be received until Sept. 16 by Board of Public Works for paving Montebello Rd., West Roxbury.

†Boston, Mass.—State Highway Commission awarded contract for highway in Ware and Palmer Townships to PERINI CONSTRUCTION CO., Ashland, at $11,772. Noted Aug. 26.

Hartford, Conn.—Bids will be received until 2 p.m., Sept. 22, by State Highway Commission for the following state road improvements: Colebrook Township, 7,600 lin.ft.; Orange Township, 13,805 lin.ft.; Stamford Township, 30,080 lin.ft.; North Haven Township and City of New Haven, 10,418 lin.ft.; Newington Township, 5,400 lin.ft.; Brookfield Township, 16,850 lin.ft.; Litchfield Township, two sections macadam on Torrington Rd. Charles J. Bennett, State Highway Comr.

Dobbs Ferry, N. Y.—Town voted $150,000 bonds for paving with brick Albany Post Rd. through town.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids were received Aug. 24 by Calvin D. Van Name, Borough Pres., for sidewalks as follows: Joseph Johnson Sons, $24,183; C. Vanderbilt, $21,986; J. E. Donovan, $21,779. Noted Aug. 19.

†Potsdam, N. Y.—Contract for paving Depot St. awarded to ARTHUR McCONVILLE, Ogdensburg, at $6,000.

†Utica, N. Y.—Contract for concrete pavement in Kenyon Court awarded ROBERTS & CO., Utica.

Yonkers, N. Y.—(A correction)—We have been advised that it was O'Rourke Contracting Co., Inc., 12-14 North Broadway, Yonkers, instead of O'Rourke Construction Co., which was awarded contract for paving Park Ave. Noted Sept. 9.

†East Orange, N. J.—Board of Chosen Freeholders of Essex County awarded contract for resurfacing Central Ave. with bitulithic to NORTHERN CONSTRUCTION CO. at $56,975. Noted Aug. 26.

Montvale, N. J.—Bids will be received by J. Ernest Thier, Mayor, until Sept. 17 at School No. 2 for improving Magnolia and Grand Ave.

†Newark, N. J.—JOHN DORER, Irvington, at $6225, awarded contract for rebuilding Main St. from Millburn line to Morris Ave.

†Nutley, N. J.—Board of Chosen Freeholders of Essex County awarded contract for bitulithic paving on Washington Ave. to STANDARD BITULITHIC CO., Newark, at $76,489. Noted Aug. 26.

Ardmore, Penn.—Commissioners of Lower Merion Township appropriated $50,000 for road construction and repairs in that township.

†Fayette City, Penn.—Borough Council awarded contract for 2600 ft. brick paving on Connellsville Ave. to CROSSAN CONSTRUCTION CO., Brownsville, at $9516.

†Pittsburgh, Penn.—(Official)—Controller of Allegheny County awarded contracts for road improvement as follows: J. W. BUTLER, Elizabeth, Lincoln Way Extension, Elkhorn and Monongahela City Rd.; JOHN F. HOWLEY & CO., Pittsburgh, Round Hill Rd.; RIDGE BROS. CO., Pittsburgh, Scotia Hollow Rd. Noted Sept. 2.

†Saxonburg, Penn.—(Official)—Contract for improving Main St. awarded to HARRY HALL & CO., Homestead, Penn., at $12,765. Noted Sept. 2.

Baltimore, Md.—Commissioners for Opening Streets submitted plans to Board of Estimate for establishment of Ellicott Driveway. Estimated cost, $69,100.

Baltimore, Md.—Commissioners plan to widen St. Paul St. from Courthouse to Hamilton St.

Portsmouth, Va.—F. H. Murray, Engr., State Highway Comn., Richmond, submitted cost of improving four toll roads with concrete and gravel at $134,600; macadam, gravel and sand clay, $198,600.

†Vinton, Va.—Contract for 2,500 lin.ft. cement sidewalk awarded to TINSLEY CONSTRUCTION CO., Roanoke.

Janelew, W. Va.—Citizens voted to issue $15,000 bonds for improving streets and roads. Noted Aug. 19.

Parkersburg, W. Va.—City sold $200,000 bonds for street improvements.

Pineville, W. Va.—Citizens voted to issue $550,000 bonds for constructing roads in Wyoming County.

†Asheville, N. C.—Contract for 9000-ft. sidewalk on Maywood and Beverly St. awarded to REED & WELLS.

Newbern, N. C.—Craven County voted to issue $100,000 bonds for roads. Noted Aug. 19.

†Winston-Salem, N. C.—Contract for grading street in Buena Vista County awarded to SHORE TRANSFER CO., Winston-Salem.

Miami, Fla.—County will vote on issuing $275,000 bonds for county's portion of Tamiami Trail.

St. Petersburg, Fla.—Citizens voted to issue $715,000 bonds for highways.

†Grove Hill, Ala.—Contract for two roads in Clarke County awarded to CENTRAL ALABAMA CONSTRUCTION CO., at $15,579. Noted Aug. 19.

Scottsboro, Ala.—Bids will be received until Sept. 25 by the Commissioners of Jackson County for grading part of Woodville and Limrock Rd. Estimated cost, $11,158.

Jennings, La.—Jefferson Davis Parish, Ward No. 2, will vote Oct. 19 to issue $125,000 bonds for roads.

Natchitoches, La.—Ward Nine, Road District No. 13 voted to raise $50,000 for gravel road through the ward.

Plaquemine, La.—Iberville Parish Police Jury will issue $16,000 bonds for roads.

Decatur, Tenn.—Meigs County Commissioners will issue $100,000 bonds for road from Decatur to adjoining counties.

†Greeneville, Tenn.—Contract for asphaltic concrete paving awarded to SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., at $60,000.

Memphis, Tenn.—Bids were received for improving South Main St. between Linden and Calhoun Ave., as follows: Koehler Bros.-Fowler Construction Co., $22,204; E. J. Wetterstrom, $22,563; M. E. Larkin, $22,748. Noted Aug. 1.

Rogersville, Tenn.—(Official)—All bids rejected for sale of $250,000 bonds. New bids will be received Oct. 2. Noted Sept. 2.

Albany, Ky.—Citizens will issue $50,000 bonds for roads in Clinton County.

Bardwell, Ky.—Contract will soon be awarded by Commissioners of Carlisle County for six miles of proposed Bardwell-Mayfield Rd. E. C. Walker, Jr., Clinton, Engr.

†Glasgow, Ky.—Contract for four-mile rock road in Barren County awarded to J. H. NEWMAN, Tompkinsville, and C. S. DAVIS, Nashville, Tenn., at $13,386.

Hindman, Ky.—City will vote on issuing $30,000 bonds for macadam streets.

Hyden, Ky.—Citizens will vote Oct. 23 on issuing $75,000 bonds for a road from Hyden to Hazard.

Somerset, Ky.—Citizens of Pulaski County will vote to issue $200,000 bonds for roads.

†Akron, Ohio—Contract for paving highways in Norton Township awarded to McALONAN BROS., at $30,000.

Bexley, Ohio—Bids will be received until noon, Sept. 27, by Chester A. Miller, Clk., for paving Ridge Ave. Jennings, Lawrence & Lindsay, 509 Hartman Bldg., Columbus, Engr.

Cadiz, Ohio—City Council awarded contract for paving several streets with brick to COSS & MEYER, Wheeling, W. Va., at $14,877.

†Columbus, Ohio—Service Director awarded contracts for street improvements as follows: MONARCH CONSTRUCTION CO., Como Ave., brick, $15,959; ANDREWS ASPHALT PAVING CO., asphalt, Reynolds Ave., $6757; New York Ave., $9460; Sheldon Ave., $13,365; A. W. BURNS & CO., brick, Perry St., $5573; Kent St., $8590; Wall St., $10,423; Blenkner St., $4163; GEORGE GEIGELE & SON, brick, alley north of Tiffin St., $1450; Avon Court, $2248; CLEVELAND TRINIDAD PAVING CO., asphalt, Main St., $8114; A. G. PUGH, asphalt, Forrest St., $44,547.

Dayton, Ohio—Bonds for $70,000 will be sold Sept. 21 for improving Eaton and Old Troy Pikes.

†Eaton, Ohio—Contract for tarvia pavement on West Main St. awarded to H. W. CURRY & CO., Eaton, at $6200.

Findlay, Ohio—Bids will be received by J. C. Copeland, County Clk., until noon, Oct. 2, for repair of county road.

†Girard, Ohio—Contract for paving East Main St. awarded to TURNER & OLSEN CO., Youngstown, at $12,500.

Ironton, Ohio—(Official)—City will sell $14,000 bonds Oct. 7 for improving streets in District No. 11.

Lisbon, Ohio—Columbiana County sold $194,999 bonds for road improvements.

†Newark, Ohio—(Official)—Contract for paving Section 2 and 3 of Granville and Croton Pike awarded SCHILLING CONSTRUCTION CO., Youngstown, Ohio, at $9142.

†Salem, Ohio—(Official)—Contract for paving on Goshen Ave. and 10th St. awarded to J. D. PAXSON, Salem. Noted Aug. 26.

Steubenville, Ohio—Bids will be received until 1 p.m., Sept. 18, by Trustees of Island Creek Township, for grading road at Laurel Hill, Jefferson County.

Toledo, Ohio—(Official)—Bids will be received by the Board of County Commissioners of Lucas County, Court House, until 10 a.m., Sept. 17, for Stone Road Improvement No. 72.

Toledo, Ohio—Bonds for $131,000 sold for street improvements.

†Troy, Ohio—SWEENEY, ROBBINS & McDANIELS, at $7422, awarded contract for Shellsberger Rd. in Union Township.

†Warren, Ohio—Board of Control awarded contract for paving Homewood Ave. to TURNER & OLSON; contract for Franklin St. awarded to JAMES McCRACKEN. Noted Sept. 2.

†Washington C. H., Ohio—Contract for brick pavement on Leesburg Ave. awarded G. H. HECNER & SONS Celina.

†Xenia, Ohio—(Official)—Contract for paving portion of Third St. awarded to ANDREWS ASHPHALT PAVING CO., Middletown. Noted Aug. 19.

Youngstown, Ohio—(Official)—Bids will be received until 2 p.m., Sept. 27, by D. J. Jones, City Audr., for city paving bonds.

†Angola, Ind.—Contract for roads in Steuben County awarded to W. S. GORDON & SON, Liberty Center, Bluffton, at $39,152.

Brazil, Ind.—(Official)—Bids will be received until 10:30 a.m., Oct. 5, by William O. Graeser, Audr., Clay County, for gravel road between Jackson and Cass Townships.

Franklin, Ind.—Bids will be received until 2:30 p.m., Oct. 8, by the Commissioners of Johnson and Marion Counties for two county line roads.

Goshen, Ind.—(Official)—Bids will be received until 2 p.m., Oct. 4, by John W. Brown, Audr. of Elkhart County, for concrete road in Harrison Township.

Logansport, Ind.—Resolution passed by Board of Work for paving West Broadway, Wheatland Ave., Linden Ave. and Race St.

Michigan City, Ind.—(Official)—Bids will be received until 10 a.m., Sept. 27, by Board of Public Works for paving Charles St. Alex. Spychalski, City Clk.

Muncie, Ind.—(Official)—Bids will be received until 10 a.m., Oct. 6, by F. M. Williams, Audr., Delaware County, for gravel or macadamized road in Center and Liberty Townships.

✚Riverside, Ind.—Contract for Ashland Ave. curb and gutter awarded WILLIAM BIRCH & CO., Muncie.

✚Detroit, Mich.—Contract to pave Evaline Ave. and part of Jacob Ave. awarded R. D. BAKER CO., at $10,809 and $6861 respectively.

✚Eaton Rapids, Mich.—Contract for about 11 blocks of concrete-asphalt pavement awarded to GLOBE CONSTRUCTION CO., Kalamazoo, at $1.32 per sq.yd. Noted July 1.

Chicago, Ill.—International Paved Way Association organized at Chicago to promote an automobile highway from the Mexican to Canadian border. Estimated cost, $20,000,000.

✚Elgin, Ill.—Contract for curb and gutter in Ryerson Ave. and other streets awarded L. Z. BARCUS & CO., La Porte, at $8606. Noted Aug. 19.

✚Havana, Ill.—JANSEN & ZOELLER, Pekin, awarded contract for improvements in District C. Noted July 15.

✚Peoria, Ill.—Board of Local Improvements awarded contract for brick paving on Maryland St. to DOUGLAS A. MYERS at $5,985.

✚Peoria, Ill.—Contract for paving North Adam St. awarded to CANTERBURY BROS., Peoria, at $17,157.

★St. Charles, Ill.—(Official)—Bids will be received until 8:30 p.m., Sept. 20, by Board of Local Improvements for improving parts of East Main and West Main St. and other connecting streets. John W. Wilson, Engr.

Virginia, Ill.—Cass County plans to expend about $13,785 for highway improvements.

✚Boscobel, Wis.—(Official)—City awarded contract for improving various streets to EDWARD BARTLETT, Watertown, Wis., at $1.41 per sq.yd. Noted Aug. 26.

✚Aitkin, Minn.—Contract for state rural highway No. 10B awarded SMALL & OLSON, Aitkin, at $43,390.

✚St. Paul, Minn.—Contract for repaving University Ave. from Rice to Dale St. with creosoted block awarded to FIELDING & SHEPLEY, St. Paul, at $55,300.

Walker, Minn.—(Official)—Bids will be received by County Auditor until Sept. 25 for grading and graveling 30 miles of highway. Estimated cost, $80,000. George Ralph, St. Paul, Engr.

✚Great Bend, Kan.—(Official)—Contract for 20,671 sq.yd. paving awarded to WATTS & AMMERMAN, Salina, at $1.27 per sq.yd. for trinidad asphalt. Noted Aug. 26.

✚Junction City, Kan.—(Official)—County Commissioners awarded contract for one mile of concrete road to ZIEGLER BROS., Junction City, at $1.10 per sq.yd. Noted Sept. 2.

✚Olathe, Kan.—Contract for 3800 sq.yd. vertical fiber brick paving awarded to J. H. COSGROVE, Olathe, at $7,613.

Kearney, Neb.—(Official)—Citiens voted to issue $50,000 bonds for improving streets. Noted Sept. 2.

✚Bozeman, Mont.—Contract for paving in Districts 98 and 99 awarded to WARREN CONSTRUCTION CO., Portland, Ore., at $42,302.

Great Falls, Mont.—Resolution adopted by Council to create improvement district to improve North, Third, Fourth, Sixth, Seventh, Eighth and Ninth St. and Fifth Ave. Estimated cost between $38,470 and $63,435.

Harrisonville, Mo.—Dolan Township, Special Road District, Taft County, plans nine miles of rock road.

Kansas City, Mo.—Bids will be received by Park Commissioners until Sept. 28 for grading Meyer Blvd. and the Paseo.

Liberty, Mo.—Clay County Commissioners will be asked to vote on issuing $50,000 bonds for roads.

✚St. Louis, Mo.—Board of Public Service awarded contracts for street improvements as follows: G. A. HEMAN, Florissant Ave., asphalt, at $82,067; Marcus Ave., two sections, brick, $29,708 and $21,027; GRANITE BITUMINOUS PAVING CO., Ashland Ave., asphalt, $5,844; WEBB KUNZE CONSTRUCTION CO., Skinker Rd., wood block, $84,712; KYERMANN CONSTRUCTION CO., repaving on Market St., wood block, $17,225; PERKINSON CONSTRUCTION CO., Milburn Ave., brick, $7,651; RUECKING CONSTRUCTION CO., Chariton St., brick, $7,614; HANICK QUARRY AND CONSTRUCTION CO., Duncan Ave., brick, $13,480; Arlington Ave., brick, $15,494. Noted Aug. 19.

St. Louis, Mo.—(Official)—Bids will be received until noon, Oct. 5, by Board of Public Service for the following street improvements: Marcus Ave., estimated cost, $8500; Tower Grove Ave., cost $16,000; Spring Ave., cost, $15,000; Soulard St., cost, $25,000. E. R. Kinsey, Pres. Bd. Pub. Ser.

St. Louis, Mo.—Bids will be received until noon, Sept. 23, by Pitzman Co., Surv. and Engr., 615 Chestnut St., for approximately 600,000 cu.yd. grading and excavating for University Park Realty Co.

Austin, Tex.—Citizens contemplate issuing bonds for $425,000 for streets and bridges.

Clarksville, Tex.—City will sell $100,000 bonds Sept. 28 for roads and turnpikes in Road District No. 1.

Galveston, Tex.—County Commissioners plan to repair seawall boulevard. R. M. Sias, County Engr. and Supvr.

✚Lufkin, Tex.—Contract for three blocks of paving awarded to TEXAS BITULITHIC CO., Dallas, at $10,000.

Lufkin, Tex.—Agelina County will vote on issuing $200,000 bonds for roads.

Sulphur Springs, Tex.—City will issue $10,000 bonds for improving streets.

Woodville, Tex.—Citizens voted against issuing $100,000 bonds for roads in Tyler County, Road District No. 1. Noted Aug. 26.

Oklahoma, Okla.—County plans to expend $140,000 for improving roads.

Salt Lake City, Utah—County Commissioners plan concrete highway on State St. from southern limits of city to Murray city line.

✚Salt Lake City, Utah—(Official)—P. J. MORAN, Inc., Salt Lake City, awarded contract for paving various streets at $48,025. S. Q. Cannon, City Engr. Noted Aug. 19.

Wendover, Utah—(Official)—No bids were received for 25 miles of highway. E. R. Morgan, State Rd. Engr. Noted Aug. 19.

Anacortes, Wash.—Contract will soon be awarded for paving Commercial Ave. to county road.

✚Auburn, Wash.—(Official)—Contract for paving 19 blocks awarded to WASHINGTON PAVING CO., Tacoma, at $24,979. Noted Aug. 26.

✚Bellingham, Wash.—Contract for pavement on Harris Ave. awarded to K. SAUSET, at $11,148.

✚Chehalis, Wash.—SPEAKER & McKEE, at $5,928, awarded contract for one mile of road on Jackson Prairie.

Hoquiam, Wash.—Resolution has been passed for improving Simpson Ave. Estimated cost, $47,672.

✚Olympia, Wash.—Bids opened Aug. 30 by State Highway Commission for highway from Nemah to Nasel River in Pacific County. Three lowest bids were: BURNETT CONSTRUCTION CO., 909 Second Ave., Seattle, $36,955 (awarded contract); Elliott Contracting Co., Portland, Ore., $39,305; L. H. Goerig, 1027 Bellevue Court, Seattle, $37,428.

✚Olympia, Wash.—(Official)—Bids opened Aug. 30 by State Highway Commission for road from Union Flat Creek south in Whitman County as follows: W. G. Mulligan & Co., 302 Eagle Bldg., Spokane, $7955; H. C. ROOT, South 525 Madison St., Spokane, $7784 (awarded contract); H. L. Wilson Co., Walla Walla, $8292; General Construction Co., Spokane, $9184. Noted Aug. 19.

Seattle, Wash.—A. H. Dimock, City Engr., submitted cost of paving 47th Ave., N. E., $27,893; First Ave., $20,539; grading Eloise Terrace, $10,870.

Seattle, Wash.—City Council authorized improvement of 51st Ave. and other streets. Estimated cost, $54,394.

Tacoma, Wash.—Surveys will soon be made for 10.6 miles of Mountain Rd. Estimated cost between $100,000 and $140,000.

✚Tacoma, Wash.—Commissioners of Pierce County awarded contract for paving 5.57 miles of Pacific Highway with bitulithic on concrete base to WASHINGTON PAVING CO., Tacoma, at $79,375. Noted Aug. 26.

Walla Walla, Wash.—Council passed resolution for paving South Second St. Estimated cost, $12,000.

✚Waterville, Wash.—Commissioners of Douglas County awarded contract for 2¾ miles of Permanent Highway No. 3 to BAILEY & O'CONNOR, Wenatchee, at $17,985.

✚Medford, Ore.—Contract for Pacific Highway from Tolo to Josephine County Line awarded to C. NATWICK, at $16,659.

Salem, Ore.—Bond issue for $10,000,000 for state roads has been proposed.

Dunsmuir, Calif.—City plans to lay 1¼ miles of concrete pavement. P. M. Lau is City Engr.

✚East San Diego, Calif.—Contract for improving Hugo Ave. awarded to OLAF NELSON, at $40,532.

✚Eureka, Calif.—Supervisors of Humboldt County awarded contract for Hoopa Valley Rd. to HARTNEY & McNAUGHTON, at $11,974.

Los Angeles, Calif.—Bond issue for $3,000,000 proposed for extension of county highway system.

✚Los Angeles, Calif.—D. D. CHAPMAN, 216 North Johnstone St., Los Angeles, at $11,472, awarded contract for improving roads in District No. 3. Noted July 22.

Marysville, Calif.—District No. 10 plans to gravel three miles of road. Estimated cost, $5,600.

Modesto, Calif.—Plans have been prepared by G. E. Freitas, City Engr., for street work estimated to cost $20,664.

Nevada City, Calif.—City Council is considering improving sidewalks of city.

✚Oakland, Calif.—(Official)—Board of Supervisors awarded contract for bitulithic paving on county roads in Murray Road District to CALIFORNIA BITULITHIC CO., care of Hutchinson Co., Oakland, at $14,235. Noted Sept. 2.

✚Redwood City, Calif.—Contract for road from Pescadero to Santa Cruz County Line awarded to LOU G. HARE, Salinas, at $29,000.

✚Riverside, Calif.—Contract for 8.67 miles of highway awarded to CONNER CONTRACTING CO., Los Angeles, at $28,910.

Sacramento, Calif.—(Official)—Bids were received Aug. 23 by the State Highway Commission for highway in Siskiyou County, Division 2, Route 3, Section A, as follows: P. J. Lechner, Alameda, $23,944; Moffett & Mead, San Francisco, $24,750; F. H. Green, Eureka, $22,600.

✚San Francisco, Calif.—Contract for paving boulevard between Lincoln and Presidio, including sidewalks and sewers awarded to CITY IMPROVEMENT CO., San Francisco, at $65,000.

✚San Francisco, Calif.—Board of Public Works awarded contract for paving part of Fulton St. to OWEN McHUGH, at $11,188.

✚San Francisco, Calif.—Board of Public Works awarded contract for grading on 37th Ave. to BLANCHARD-BROWN CO., at $5931.

San Mateo, Calif.—RANSOME-CRUMMEY CO., Oakland, at $70,850, awarded contract for pavement at upper end of San Mateo Park.

San Mateo, Calif.—Contract for paving several streets awarded to FEDERAL CONSTRUCTION CO., San Francisco, at $17,800.

Santa Ana, Calif.—Contract for 5½ miles of Santiago Blvd. awarded FRED HOFFMAN, at $19,498.

Santa Ana, Calif.—MAX L. HUBERMAN, at $10,695, awarded contract for Yorba Linda Rd.

Santa Cruz, Calif.—Plans are being considered for paving King St., Ocean View, Branciforte and Soquel Ave. Estimated cost, $75,000. W. J. Thompson, City Engr.

Santa Cruz, Calif.—Contract for paving Mission St. awarded to C. GREENFIELD, at $25,831.

Stockton, Calif.—City Council authorized paving North Center, Maple and Ash St. Estimated cost, $26,000. H. T. Compton, City Engr.

Venice, Calif.—Contract for 29,000 ft. of asphalt concrete pavement awarded to BRAUN, BRYANT & AUSTIN, Santa Monica.

Yreka, Calif.—Board of Supervisors plans to grade and pave road to Ft. Jones and Scott Valley. Estimated cost, $60,000.

INDUSTRIAL WORKS

Lubec, Maine—American Can Co., New York, N. Y., awarded contract for concrete addition to its plant at Lubec to CUMMING CONSTRUCTION CO., Boston, Mass. Cost, $100,000.

Holyoke, Mass.—Bosch Magneto Co., Chicopee, awarded contract for a new plant at Holyoke to CASPER RANGER CO. Cost, about $100,000.

Lowell, Mass.—Contract for 10-story, brick and reinforced-concrete 92x132-ft. storage warehouse for Appleton Co., Jackson and Revere St., awarded to NEW ENGLAND CONCRETE CONSTRUCTION CO., 201 Devonshire St., Boston. Cost, $125,000.

South Boston, Mass.—M. F. Cahill Co. awarded contracts for four-story, 107x134-ft., brick and mill constructed factory to APTED & McDUFFEE, Malden, general contract, and TYSON, WEARE & CO., Old South Bldg., Boston, foundations. Cost, $75,000.

Springfield, Mass.—New England Westinghouse Co., Page Bldg., will build brick woodworking shop. Cost, $50,000.

Pawtucket, R. I.—Phillips Insulated Wire Co. awarded contract for three-story brick and mill constructed 70x100-ft. wire mill to WILLMARTH & MacKILLOPP, INC., Pawtucket, at $25,000. Noted Aug. 19.

Bridgeport, Conn.—Loban Bros. plans a five-story, fireproof 103x108-ft. warehouse on Housatonic Ave.

South Windham, Conn.—Smith & Winchester Co. awarded contract for two-story, 60x127-ft. foundry addition to H. WALES LINES CO., Meriden, at $20,000.

Unionville, Conn.—J. Broadbent & Son, Inc., awarded contract for four-story brick and mill constructed factory to R. J. JONES, Hartford.

Buffalo, N. Y.—Curtis Aëroplane Co. will build the fourth addition this year to its factory at Churchill Ave. and New York Central R.R. Estimated cost, $50,000.

Buffalo, N. Y.—American Radiator Co. will build two one-story additions to its plant at 110 Ledger St. Cost, $55,000.

Buffalo, N. Y.—Lehigh Valley R.R. will build repair shops and yards at Tifft St., Hamburg Turnpike and City Ship Canal to cost about $250,000.

Buffalo, N. Y.—William H. Walker Co. awarded contract for 11-story warehouse and distributing station at Franklin and Erie St. to TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo.

Jamestown, N. Y.—Struthers-Wells Co., Warren, Penn., awarded contract to McCLINTIC-MARSHALL CO., Pittsburgh, Penn., for one-story, 200x200-ft. concrete blacksmith shop in Jamestown. Cost, $50,000.

Rochester, N. Y.—Folding Barrel Co., 220 Broadway, New York, N. Y., will build a $12,000 factory in Rochester. F. J. Pomeroy, 23 Farraday St., is Factory Mgr.

Tonawanda, N. Y.—The McKinnon Chain Co. awarded contract for one-story, 80x90-ft., brick and concrete addition to its plant to MORRIS & ALLEN, Builders Exchange, Buffalo, at $10,000.

Harrison, N. J.—Hyatt Roller Bearing Co., Middlesex St., awarded contract for six-story, 90x110-ft. addition to its plant to AMERICAN CONCRETE STEEL CO., Newark. It will be of reinforced concrete, brick veneer.

Lambertsville, N. J.—Lambertsville Rubber Co. will soon award contracts for three-story, 60x110-ft. brick plant.

Allentown, Penn.—Allentown Ice & Cold Storage Co. has taken out permit for one-story brick addition. Cost, $28,000.

Ardmore, Penn.—Autocar Co. will build five-story, reinforced-concrete, 64x77-ft., factory addition. Stearns & Castor, Stephen Girard Bldg., Philadelphia, Arch.

Chester, Penn.—Keystone Casting Co. will build a fireproof brick addition. Cost, $30,000.

Harrisburg, Penn.—Kelker & Johnson, Union Trust Bldg., receiving bids for reinforced-concrete and brick, 74x11-ft., warehouse for Montgomery & Co.

Philadelphia, Penn.—Contract awarded to FIDELITY CONSTRUCTION CO. for seven-story, reinforced-concrete, 62x100-ft., cold storage warehouse, and 28x55-ft. smokehouse for John J. Felin Co., 4142 Germantown Ave. Cost, $100,000 and $15,000 respectively. Noted Sept. 2.

Philadelphia, Penn.—Bennett & Aspden Co., Leverington and Baker St., awarded contract for four-story factory at Pechin St. and Krams Ave. to WILLIAM STEEL SONS CO., 1600 Arch St., Philadelphia. Estimated cost, $100,000.

Pittsburgh, Penn.—Murdock Storage & Transfer Co. will build five-story storage and office building at Fifth Ave. and Craig St.

Baltimore, Md.—Curtis Bay Distillery Co. has awarded contracts for its denatured alcohol distillery as follows: Fabrication and erection of steel, PORTHOFF CONSTRUCTION CO., Cincinnati, Ohio; concrete work, CURTISS WOODRUFF CO., Brooklyn, N. Y.; copper work and machinery, ANSONIA COPPER & IRON WORKS, Cincinnati; grading and well-digging, WILLIAM G. GISHEL CO., Curtis Bay.

Baltimore, Md.—Poole Engineering Co. has awarded contract for its war munitions plant addition to COWEN BUILDING CO. It will be of brick and steel, 100x290 ft.

Baltimore, Md.—Kennedy Foundry Co., South Charles St., will build a three-story addition, covering 24,000 sq.ft., for a core and patternshop. Joseph P. Kennedy is Pres.

Baltimore, Md.—Baltimore Dry Docks & Shipbuilding Co. awarded contract for one-story, 60x200-ft. shipbuilding plant to CHESAPEAKE IRON WORKS. It will be of steel, corrugated iron and reinforced concrete.

Parkersburg, W. Va.—Modern Flint Glass Co. will build glass plant to cost $50,000. James O. Gill, Philadelphia, Penn., is interested.

Charlotte, N. C.—Reported that the Ford Motor Co., Detroit, Mich., will build an assembling plant in Charlotte.

Akron, Ohio—Osborn Engineering Co., 740 Engineers' Bldg., Cleveland, receiving bids for a three-story factory on East Market St. extension, Akron, for Western Tire & Rubber Co. M. O'Neil, Pres. Noted Sept. 9.

Cleveland, Ohio—(Official)—Contract for plant of the Kessler Mfg. Co. awarded to SAMUEL AUSTIN SON CO., Euclid Ave., Cleveland. Noted Aug. 26.

Evansville, Ind.—Evansville Packing Co. will build plant to cost $150,000.

Kokomo, Ind.—Haynes Motor Car Co. will build three reinforced-concrete additions to its plant. Cost, $250,000. Company has also purchased a brick factory building for a tool plant.

Chicago, Ill.—The Baltimore & Ohio Chicago Terminal R.R., Fifth Ave. and Harrison St., will build a two-story brick roundhouse and machine shops on West 14th St. Cost, $245,000. M. A. Long, Arch.

Chicago, Ill.—Armour & Co., Union Stockyards, will build a seven-story brick and concrete canning factory. Cost, $325,000. R. A. Clark, Arch.

Chicago, Ill.—(Official)—Contract for a factory for Republic Box Co. awarded to JAMES SHEDDEN & CO., Chicago, at $31,500. Noted Aug. 19.

Milwaukee, Wis.—John Wolleager Auto Co., 417 Wells St., awarded contract for two- and three-story, 62x90-ft. addition to its garage to A. MONSTED CO., Pabst Bldg., Milwaukee.

Milwaukee, Wis.—The Linde Air Products Co., New York, N. Y., contemplates an 80x100-ft. brick and concrete factory at 38th and National Ave.

Waterloo, Iowa—Plans are being prepared for four-story factory and distributing plant for Waterloo Overland Motor Co. Estimated cost, $40,000.

Lincoln, Neb.—Star Van & Storage Co. will build a 50x70-ft. fireproof addition to its warehouse at 818 Q St. Cost, $12,000.

Springfield, Mo.—Rhodes Produce Co. will build a store and warehouse on South Campbell St. Estimated cost, $20,000. C. L. Rhodes, Pres.

Golden, Colo.—Sanitary Brick Co. will build an addition to its plant. Estimated cost, $25,000. L. A. Copeland, Mgr.

Trinidad, Colo.—Swift & Co., Chicago, Ill., having plans prepared for cold-storage plant. Estimated cost, $30,000.

Spanish Forks, Utah—The Utah-Idaho Sugar Co. awarded contract for a $500,000 sugar factory to E. H. DYER CONSTRUCTION CO., Salt Lake City.

Spokane, Wash.—Powell-Sanders Co. has plans for six-story, 100x110-ft. office building and warehouse. Cost, $50,000. John K. Dow, Arch.

Saskatoon, Sask.—Macdonald-Crawford, Ltd., will build four-story warehouse. Approximate cost, $50,000.

FEDERAL GOVERNMENT WORK

Wharf—Ft. Constitution, N. H.—Bids will be received until noon, Sept. 25, by A. G. Frick, Quartermaster, for addition to wharf.

Breakwater—Buffalo, N. Y.—Contract awarded to COAST & LAKES CONTRACTING CO., New York, at $14,055, for riprap and repairing concrete superstructure on Buffalo breakwater. Noted Sept. 9.

Dredging—Port Chester, N. Y.—Contract awarded to EASTERN DREDGING CO., at $7277, for dredging in Port Chester Harbor. Noted July 8.

Building—Tompkinsville, N. Y.—Bids will be received until 2 p.m., Sept. 30, by Lighthouse Inspector, Tompkinsville, for building third story and permanent roof of reinforced concrete on carpenter shop at General Lighthouse, Tompkinsville.

Repairs Hospital—Pittsburgh, Penn.—Bids will be received until 3 p.m., Sept. 20, by U. S. Public Health Service, U. S. Marine Hospital, Pittsburgh, for repairs to U. S. marine hospital at 40th St. and Penn Ave., Pittsburgh.

Steam Engine—Pittsburgh, Penn.—Contract awarded to NORDBERG MFG. CO., Milwaukee, Wis., at $4,500, for steam engine for experimental station, Bureau of Mines.

Heating and Ventilating—Washington, D. C.—Bids were received Sept. 7 by Commissioners of District of Columbia for heating and ventilating in Park View school as follows:

Riggs, Distler & Stringer, Baltimore, Md., $13,678; Standard Engineering Co., Washington, $14,650 and W. G. Cornell Co., Washington, $15,200.

✚Laboratory—Washington, D. C.—Contract for chemical laboratory at Bureau of Standards, Washington, awarded to WELLS BROS., New York, N. Y., at $188,556. Noted July 8.

Lumber—Washington, D. C.—Bids will be received until 2 p.m., Sept. 22, by Commissioners of District of Columbia, for 95,078 sq.ft. of Georgia pine bridge lumber.

Machine Tools—Washington, D. C.—Bids will be received until 10 a.m., Oct. 5, by Paymaster-General, U. S. N., Washington, for machine tools as follows: Schedule 8,780, 2 geared head lathes, 18-in.x8 ft., 1 geared head lathe, 16-in.x6-ft., 1 trimming press, for delivery at Washington Navy Yard; Schedule 8,781, 1 turn table lathe, 2½x26, for delivery at Boston Navy Yard; Schedule 8,782, 2 upright drills, 21-in., 2 double emery grinders, 12-in., 2 engine, screw-cutting lathes, 2 crank shapers, 16-in., for Boston and Philadelphia navy yards.

Plumbing—Washington, D. C.—Bids were received Sept. 7 by Commissioners of District of Columbia for plumbing for Park View School as follows: Isidor Freund, Washington, $5,770; Ribbs, Distler & Stringer, Baltimore, Md., $5,796 and F. C. Stelzer, Washington, $6,347.

★Dredging—Norfolk, Va.—Bids will be received until noon, Sept. 23, by U. S. Engineer, Custom House, Norfolk, for dredging and rock excavation in James River.

Post Office—Norton, Va.—Bids will be received until 3 p.m., Oct. 19, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Norton.

Post Office—Charlotte, N. C.—Bids were received Sept. 7 by Acting Supervising Architect, Washington, D. C., for post office as follows: (a) limestone, (b) sandstone, John G. Unkefer & Co., Minerva, Ohio, (a) $192,692; J. A. Jones, Charlotte, (b) $207,000 (low bidders). Noted July 29 and Aug. 5.

★Post Office—Wilkesboro, N. C.—Bids will be received until 3 p.m., Oct. 14, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Wilkesboro.

Officers' Quarters—Wilmington, N. C.—Bids will be received until 3 p.m., Oct. 7, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for medical officers' quarters at U. S. Marine Hospital, Wilmington.

✚Buildings—Port Royal, S. C.—Contract awarded to NEWPORT CONTRACTING & ENGINEERING CO., Newport News, Va., at $34,676, for buildings at Naval Station, Port Royal. Noted Aug. 5 and Sept. 2.

Repairing Wharf—Ft. De Soto, Fla.—Bids will be received until 10 a.m., Oct. 1, by Jacob Frank, Act. Quartermaster, Ft. Dade, for repairing wharf at Ft. De Soto.

Dredge—Jacksonville, Fla.—Bids will be received until noon, Nov. 8, at the U. S. Engineer Office, Jacksonville, for steel hull 3½ and 7 yard dipper dredge or for leasing, subject to purchase.

Cement, Sand and Gravel—New Orleans, La.—Bids will be received until 11 a.m., Sept. 22, at the U. S. Engineer Office, Custom House, New Orleans, for cement, sand and gravel at Southwest Pass, Mississippi River.

✚Timber—Detroit, Mich.—Contract awarded to DUNCAN LUMBER CO., Portland, Ore., at $6,051, for 236,000 ft. of fir timber. Noted June 24.

Post Office—Fulton, Mo.—Bids were received Sept. 7 for post office: (a) limestone and (b) sandstone, Balkan Construction Co., Chicago, Ill., (a) $46,337, (b) $46,703 (low bidder). Noted Aug. 5.

✚Buildings—Point Isabel, Tex.—(Isabel post office)—Contract awarded to JAMES McCOY, Brownsville, at $9,500 for operator's quarters at Naval Radio station. Noted Sept. 2.

✚Post Office—Blackwell, Okla.—Contract awarded to ALGERNON BLAIR, Montgomery, Ala., at $37,616, for post office at Blackwell. Noted Aug. 12 and 26.

★Cement—Portland, Ore.—Bids will be received until 11 a.m., Oct. 7, at the U. S. Engineer Office, Second District, Portland, for cement.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., Sept. 24, by Maj. F. C. Boggs, Gen. Pur. Agt., Washington, D. C., for miscellaneous pipe and manufactured metal supplies.

MISCELLANEOUS

Dredging—Boston, Mass.—Bids will be received until Sept. 22 by State Harbor and Land Commissioners, State House, for dredging of Lewis Bay. William F. Williams, Ch. Engr.

✚Shore Protection—Boston, Mass.—Contract awarded to COLEMAN BROS., Chelsea, at $19,854, for shore protection at Revere Beach. Noted Aug. 6 and Sept. 9.

✚Retaining Wall—Quincy, Mass.—Contract awarded to HOLBROOK CABOT & ROLLINS CO., 6 Beacon St., Boston, at about $100,000 for retaining wall for Fore River Shipbuilding Co. Noted Sept. 2.

✚Dike—Springfield, Mass.—Contract awarded to H. I. PEER, Springfield, for 3,200 ft. of dike.

Dredging—Waltham, Mass.—Bids will be received until noon, Sept. 21, by State of Massachusetts for dredging in Charles River from Elm St. to Bleachory dam. Metropolitan Park Commission, 14 Beacon St., Boston, Engr.

Barge Canal Work—Albany, N. Y.—Bids were received for improvement of Sawyer's Creek at North Tonawanda: H. S. Kerbaugh, Inc., Buffalo, $9,800; Eastover Construction Co., Inc., Utica, $10,200. H. V. Berry, Ft. Plain, at $12,685 was low bidder for timber for canals in Eastern division; William J. Dowdle, Oswego, at $15,400 low bidder for Middle division and G. Elias & Bro., Inc., Buffalo, at $21,699, for Western division.

Ballast—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received Sept. 10 for ballast for Rapid Transit Ry. (a) about 243,000 cu.yd. of trap rock or hard limestone: Upper Hudson Stone Co., $228,010, Haverstraw Crushed Stone Co., $250,240 and (b) about 325,500 cu.yd. 3-in. ballast, trap rock, hard limestone or field stone, Haverstraw Crushed Stone Co., $26,325; Upper Hudson Stone Co., $27,625. Noted Aug. 26.

Pier Shed—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Commissioner of Docks, Pier A, Battery Pl., until noon, Sept. 21, for pier shed at West 23rd St., North River, under Contract No. 1471.

✚Duct Line—New York, N. Y.—(Official)—Contract awarded to E. C. MOORE, 154 Nassau St., at $34,006, for duct line for Queensboro Rapid Transit Ry. Noted Aug. 12.

Elimination of Grade Crossing—Sloan, N. Y.—Plans submitted to New York Public Service Commission, Albany, by Delaware, Lackawanna & Western R.R. for elimination of grade crossing at Sloan. Estimated cost, $329,471.

✚Sprinkler System—Hoboken, N. J.—Contract awarded to ROCKWOOD SPRINKLER CO., at $15,000, by Hoboken Land & Improvement Co. for sprinkler system in new building at 15th St.

Waterway—Trenton, N. J.—New Jersey State Commerce and Navigation Board will construct Barnegat Bay-Manasquan River Inland Waterway. About $23,000 is available to start work.

✚Tunnel—Bloomsburg, Penn.—Contract awarded to PORTLAND CONTRACTING CO., for tunnel 1,400 ft. long, by Lehigh Valley Coal Co.

★Superstructures—Philadelphia, Penn.—(Official)—Bids will be received until noon, Oct. 19, by A. M. Taylor, Dir., Pub. Ser., 754 Bourse Bldg., for steel superstructures for elevated railway.

✚Steamships—Newport News, Va.—Contracts awarded to NEWPORT NEWS SHIPBUILDING AND DRY DOCK CO., at $1,000,000 each for two steamships for Crowell & Thurlow Steamship Co., Boston, Mass.

✚Drainage—Goldsboro, N. C.—Contract awarded to A. V. WILLIS & SONS, Pittsfield, Ill., at $56,399, for dredging in canal for drainage.

Drainage—Dade City, Fla.—Plans being prepared by Hiram McElroy, Dade City, for drainage district.

Harbor Channel and Piers—Miami, Fla.—Bids will be received soon, for harbor channel and piers for Miami. Isham Randolph, Harbor Engr. Noted July 8.

Barges—Mobile, Ala.—Pratt Consolidated Coal Co. will build 16 barges and one steam boat for coal transportation. Estimated cost, $71,200.

Levees—Shreveport, La.—Bids will soon be received, according to press reports, for levees at Upper Missionary, West Egypt, Thompson's Cedar Bluff, Long Point, Loggy Lea and Campo Bello reaches.

Park Improvements—Cincinnati, Ohio—Citizens will vote on $1,250,000 bonds for park improvements at November election.

Drainage—Kenton, Ohio—(Official)—Morgan Engineering Co., Memphis, Tenn., retained as engineer to prepare plans for protection of about 25,000 acres on the Upper Scioto Drainage and Conservation District, Hardin County.

Elimination Grade Crossing—Madisonville, Ohio—Plans approved by Pennsylvania Lines West of Pittsburgh for elimination of grade crossing at Erie Ave., Madisonville. Philip Fosdick, Cincinnati, City Engr. Estimated cost, $140,000.

✚Ditch—New Philadelphia, Ohio—Contract awarded to W. A. SHIRE, Ashland, at $0.09 per cu.yd. for ditch in Tuscarawas and Holmes Counties. Noted Aug. 19.

✚Drainage—Toledo, Ohio—Contract awarded to GILMORE BROS., Toledo, at $50,000, for drainage in Defiance County.

Drainage—Liverpool, Ill.—Liverpool Drainage and Levee District contemplates draining 3,500 acres. G. R. Wilcoxen, Secy., Comrs.

Barges—Princeton, Ill.—Morton Salt Co. will build barges for use on Illinois Waterway as soon as completed.

Drainage—Atlantic, Iowa—Bids will be received until Sept. 20 by C. E. Kringel, Audr. of Cass County for Indian Creek Drainage Ditch No. 1. Estimated number of cubic yards, 129,000.

✚Ditch—Des Moines, Iowa—Contract awarded to JOHN ATWOOD, Mingo, for drainage ditch No. 17 in Clay Township.

✚Ditch—Grand Rapids, Minn.—Contracts awarded to BARNARD, LATVALA & FREDERICKS, Minneapolis, at $104,89 for 36-mile ditch in Itasca County.

Ditch—Slayton, Minn.—Bids will be received until Sept. 21 by E. V. O'Brien, County Audr., for ditches, 40, 42, 43, 10 and 11. Estimated cost, $122,020.

Ditch—Worthington, Minn.—Bids will be received until Sept. 25, by G. Swanberg, County Audr., for ditch No. 12. Estimated cost, $23,073.

Levees—Concordia, Kan.—Bids will be received until Sept. 20 by James McCahn for ten sections of Lawrence Township levee. S. Doran, County Engr.

Elimination of Grade Crossing—Hutchinson, Kan.—Arkansas Valley Interurban and Rock Island & Santa Fe Ry. plan to eliminate grade crossing at Ave. B and Lorain St. Estimated cost, $50,000. R. F. Rockefeller, Division Engr. of Rock Island Ry., Engr.

Levees—Malden, Mo.—Bonds for $40,000 have been sold. Levees will be constructed in St. John's Drainage District. Bids will be received about Oct. 1.

★Drainage—Marion, Ark.—(Official)—Bids will be received until noon, Sept. 22, by Willis E. Ayres, Randolph Bldg., Memphis, Tenn., for purchase of $160,000 drainage bonds.

Canal Improvements—Twin Falls, Idaho—Twin Falls Canal Co. contemplates enlarging highline canal and replacing siphons in Rock Creek district. Estimated cost, $125,000.

Drainage—Plain City, Utah—Surveys being made by W. P. Thomas, County Agricultural Agent, of water-logged lands near Plain City and Hooper with a view to drainage.

Dams—Salt Lake City, Utah—Bids will be received until Oct. 1 by S. Q. Cannon, City Engr., for 105x300-ft. dam in Parley's Canyon. Estimated cost, $100,000.

+Jetty Work—Kelso, Wash.—Contracts awarded to INTERSTATE CONSTRUCTION CO., Portland, Ore., for 400 ft. of Jetty in front of Hill Mill Bar and to ALBERT BURCHAM, Kelso, for furnishing pile.

Steel Rails—Seattle, Wash.—Bids will be received until 1:30 p.m., Sept. 22, by C. E. Remsberg, Secy., Port of Seattle Commission, for steel rails and appurtenances for East Waterway Terminals. Estimated cost, $15,000.

Barge—Windsor, Ont.—Plans being prepared by C. W. Cadwell, Mgr., Cadwells Ltd., for steel barge with 1,600 cu.yd. capacity fully equipped.

Terminals and Sea Wall—Vancouver, B. C.—Canadian Northern Ry. Co. will construct terminals and sea wall at Vancouver. Estimated cost, $5,000,000.

BUILDINGS

Other items relative to Building Construction will be found under the following heads: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Portland, Maine—Elm Theater Co. will build ground floor theater on Elm St. near Congress St.

+Portsmouth, N. H.—Contract awarded to E. N. McNABB & CO., Portsmouth, at about $50,000, for 2½-story, 36x126-ft. building for Chase Home for Children.

+Amherst, Mass.—Contract awarded to ALLEN BROS., Amherst, for fraternity building for Delta Upsilon Society, Amherst.

Boston, Mass.—Andrew A. Badaracco, 359 Hanover St., will build three-story, 31x282-ft., brick building at Haymarket Sq. Fred A. Norcross, 46 Cornhill, Arch. Estimated cost, $90,000.

+Boston, Mass.—Contract awarded to L. P. SOULE & CO., 40 Central St., for eight-story office building at Tremont and Boylston St. Blackall, Whittemore & Clapp, 20 Beacon St., Arch.

Cambridge, Mass.—Walsh Bros., 150 Hampshire St., Cambridge, at $78,000, low bidder for hospital and boiler house for City of Cambridge.

Danvers, Mass.—All bids received for Essex County Independent Agricultural School have been rejected. New bids will be received. Estimated cost, $50,000. Noted June 24.

Lawrence, Mass.—Municipal Council will build 12-room school on Jackson Terrace. Estimated cost, $90,000.

North Adams, Mass.—Bids will be received about Sept. 17 for 80x269-ft. brick high school. E. C. & G. C. Gardner, Springfield, Arch. Estimated cost, $175,000. Noted Aug. 19.

Springfield, Mass.—Board of Aldermen voted to have plans prepared for addition to Howard St. school.

+Springfield, Mass.—Contract awarded to M. MALONEY, Springfield, at about $50,000 for memorial building for E. K. Wilcox, Post 16, G. A. R.

Wellesley, Mass.—Wellesley College will build dormitory. Coolidge & Carlson, 89 State St., Boston, Arch.

+Pawtucket, R. I.—Contract awarded to B. F. SMITH CONSTRUCTION CO., Pawtucket, for one-story brick addition to Industrial Trust Co.'s Bank.

East Hartford, Conn.—Wilson Potter, New York, N. Y., has been retained by High School Commission to prepare plans for high school. Estimated cost, $75,000.

New Haven, Conn.—Bids will be received until noon, Sept. 25, by General Hospital Society of Connecticut for three-story and basement, 50x144-ft. administration building. Estimated cost, $100,000.

The National Tube Co., Pittsburgh, Penn., was awarded the Grand Prize at the Panama Pacific Exposition for the general excellence of its tubular products and fittings.

The Pneumatic Placing Co., Inc., has moved from its quarters at 45 Broadway to larger quarters at 2 Rector St., New York.

Albany, N. Y.—Bids will soon be received by M. T. Reynolds, Arch., 100 State St., for six-story, 57x234-ft. office building at 124 State St. for Municipal Gas Co., 112 State St. Estimated cost, $400,000. Noted July 1.

Middletown, N. Y.—Bids will be received about Sept. 24 for five-story bank and office building at North and King St. for Merchants National Bank. Estimated cost, $100,000. D. H. Canfield, Argus Bldg., Arch. Noted June 3.

New York, N. Y.—(Borough of Bronx)—Edifice will be built for Church of Our Lady of Mt. Carmel at Belmont Ave. and 187th St. Estimated cost, $70,000. Rev. D. Burke, Pastor.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Department of Public Charities, Municipal Bldg., until 10:30 a.m., Sept. 22, for additions and alterations to the Greenpoint Hospital.

New York, N. Y.—(Borough of Manhattan)—George Backer Construction Co. will build 16-story store and loft building at 21st St. and Madison Ave. Summerfield & Steckler, Arch. Estimated cost, $1,000,000. Noted July 22.

New York, N. Y.—(Borough of Manhattan)—Plans prepared by G. F. Pelham, Arch., 30 East 42nd St., for six-story apartment at Riverside Drive and 149th St. for West Side Construction Co., 200 West 72nd St. Estimated cost, $200,000. Jacob Axelrod, Pres.

New York, N. Y.—(Borough of Manhattan)—Gaetan Ajello, Arch., 1 West 34th St., is preparing plans for 13-story apartment at Riverside Drive and 108th St. for Anthony A. Paterno Construction Corporation, 272 West 84th St.

New York, N. Y.—(Borough of Manhatan)—St. Bernard's Parish plans five-story, fireproof school on 13th St. near Hudson St. Estimated cost, $130,000.

New York, N. Y.—(Borough of Manhattan)—Montague Flagge, 2nd., New York, prepared plans for 20-story store, bank and office building at Fifth Ave. and 42nd St., for Oceanic Investing Co. Estimated cost, $1,000,000. Noted Sept. 9.

New York, N. Y.—(Borough of Queens)—Degnon Contracting Co., New York, will build office building at Van Alst Ave. and Fourth St., Long Island City.

Riverhead, N. Y.—Supervisors of Suffolk County plan two-story office building for County Clerk and Treasurer. Tooker & Marsh, New York, Arch. Estimated cost, $42,500.

Southampton, N. Y.—Citizens plan addition to Southampton Hospital.

+Troy, N. Y.—Contract awarded to A. E. STEVENS CO., 101 Park Ave., New York, N. Y., for dining hall and dormitories at Rensselaer Polytechnic Institute. Estimated cost, $200,000. Noted May 27.

Camden, N. J.—A Special Committee of Bd. of Education will retain architect to prepare plans for new Manual Training High School at Baird Ave. and Boulevard, Forest Hill Park. Estimated cost, $400,000. Noted Apr. 8.

Elizabeth, N. J.—Bids will be received until 8 p.m., Sept. 30, by Board of Education for two schools. C. Godfrey Poggi, 2 Julian Pl., Arch. Noted July 8.

Elizabeth, N. J.—At meeting of Mayor and Finance and Charities Committees of Council it was voted to remodel almshouse and to recommend to Council that bids be asked. Cost, $40,500.

SUBWAY—PHILADELPHIA, PENN.

Foundations

Bids were received Aug. 16 by A. M. Taylor, Dir. of Dept. of City Transit, for constructing foundations in Front St., Kensington and Frankford Ave. from: (A) Edward Fay & Son, 2 South Mole St., Philadelphia; (B) Robert Lombardi, 600 Lincoln Bldg., Philadelphia; (C) Keystone State Construction Co., 704 Pennsylvania Bldg., Philadelphia; (D) Peoples & Ruch, 237 Commercial Trust Bldg., Philadelphia; (E) American Paving and Construction Co., 211 South Ninth St., Philadelphia; (F) Oscar Daniels Co., 233 Broadway, New York, N. Y.; (G) Millard & Lupton Co., East Allegheny Ave. and Tulip St., Philadelphia; (H) James D. Dorney, 1204 East Montgomery Ave., Philadelphia; (I) New York & New Jersey Construction Co., 30 East 42nd St., New York, N. Y.; (J) A. L. Guidone & Son, Inc., 131 East 23rd St., New York, N. Y. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
100 cu.yd. excavation	$2.50	$2.75	$2.00	$1.50	$4.00	$2.50	$10.00	$1.90	$3.50	$1.50
100 cu.yd. concrete masonry	8.00	5.75	5.00	4.00	6.50	7.00	15.00	6.90	7.50	7.50
1,000 sq.ft. precast reinforced concrete planking	1.00	.45	.30	.23	.50	.25	1.00	.10	.20	2.20
100 cu.yd. brick masonry	10.00	9.00	15.00	13.00	20.00	12.00	15.00	14.50	15.00	15.00
100 cu.yd. rubble stone masonry	5.25	5.75	5.00	6.00	6.00	9.00	8.00	5.50	6.50	6.00
10 concrete piles	2.00	35.00	45.00	30.00	33.00	30.00	100.00	35.00	35.00	60.00
M ft. yellow pine lumber	49.00	35.00	80.00	55.00	60.00	40.00	100.00	48.00	60.00	54.00
1,000 lb. steel work	.05	.04	.04	.04	.04	.035	.10	.04	.04	.03
1,000 lb. iron castings	.10	.03	.04	.035	.06	.03	.10	.0325	.04	.03
100 lin.ft. 5 in. or 6 in. vitrified clay pipe	.70	.25	.20	.55	1.00	.30	.75	.30	.50	.40
100 lin.ft. 8 in. or 10 in. vitrified clay pipe	1.00	.35	.40	.55	1.00	.40	1.50	.40	.75	.60
100 lin.ft. 12-in. vitrified clay pipe	1.30	.45	.80	1.10	1.50	.60	2.00	.50	1.00	1.00
100 lin.ft. 15-in. or 18-in. vitrified clay pipe	1.75	.60	1.20	1.25	1.90	.80	2.50	.75	1.25	1.25
100 sq.yd. stone block invert lining or sewer paving	4.00	2.00	2.50	7.00	3.00	2.50	3.00	2.90	3.00	4.00
100 sq.yd. vitrified brick invert lining	4.00	2.00	2.00	7.00	3.00	2.00	3.00	2.90	4.00	2.50
10 taking out existing sewer inlets	20.00	10.00	20.00	6.00	10.00	20.00	50.00	15.00	50.00	45.00
10 taking out and rebuilding inlets	80.00	50.00	70.00	75.00	90.00	100.00	150.00	70.00	100.00	140.00
10 building new inlets	100.00	75.00	80.00	75.00	100.00	150.00	100.00	75.00	50.00	140.00
10 moving gas lamp and posts	10.00	6.00	10.00	10.00	10.00	20.00	25.00	16.00	15.00	6.00
100 lin.ft. steel bound granolithic curb	.79	1.60	1.00	.75	1.00	1.20	1.00	.60	.70	.50
100 lin.ft. resetting stone curb	.25	.20	.30	.20	.20	.25	.50	.25	.25	.20
100 sq.yd. brick and flagstone sidewalk repaving	.60	2.00	.50	1.00	.50	1.75	1.50	.45	1.50	1.50
100 sq.yd. granolithic sidewalk repaving	1.50	1.50	1.50	1.45	1.50	2.00	2.00	1.40	1.50	1.50
100 sq.yd. granite block repaving on gravel base	1.50	.75	.50	.25	.70	1.50	1.50	.45	1.50	3.00
100 duct ft. terra-cotta Conduits	.45	.50	.20	.40	.20	.30	.25	.15	.15	.15
100 lin.ft. moving and relaying gas or water mains	6.00	1.50	1.00	10.00	1.00	2.00	5.00	2.75	2.00	3.00
100 new curb stop boxes or vent boxes	4.00	.40	1.00	2.00	1.00	5.00	1.00	.45	2.00	10.00
Extended totals	$188,278	$155,150	$185,970	$235,240	$315,640	$225,815	$273,150	$149,235	$290,450	$202,334

Pleasantville, N. J.—Bids will be received until Sept. 28 by S. Hudson Vaughn, Guarantee Trust Bldg., Atlantic City, Arch., for three-story, 105x130-ft. high school. Estimated cost, $40,000.

Carbondale, Penn.—Bids will be received until Oct. 1, by Secretary, Board of Education, for four-story, 80x150-ft. high school. E. H. Davis, Scranton, Arch. Estimated cost, $200,000. Noted Sept. 9.

Hanover, Penn.—City plans high school. Estimated cost, $85,000. Noted Apr. 15.

✚Johnstown, Penn.—Contract awarded to W. H. FISSEL & CO., Broadway and 34th St., New York, N. Y., for superstructure for passenger station for Pennsylvania R.R. Sub-bids desired.

✚Philadelphia, Penn.—Contract awarded to CRAMP & CO., Philadelphia, at $100,000 for seven-story commercial and loft building at 315 Arch St. for Charles Schmidt. Noted June 10.

✚Philadelphia, Penn.—Contract awarded to FIDELITY CONSTRUCTION CO., at $139,951, for cavalry squadron armory. Noted Aug. 26.

Baltimore, Md.—Bids will be received about Sept. 20 for 18-story office building at Lexington and Liberty St. for Public Service Building Co. Estimated cost, $1,600,000. Noted Aug. 12.

✚Baltimore, Md.—Contract awarded to W. E. BURNHAM, Law Bldg., at $51,337, for school on Cold Spring Lane near Old York Rd.

✚Washington, D. C.—Contract awarded to JAMES L. MARSHALL, 700 Tenth St., for office building on Pennsylvania Ave., between 13th and 14th St. for Federal City Construction Co. Noted July 29.

✚Danville, Va.—Contract awarded to LONZO B. FLORA, Danville, for Stonewall Jackson School.

Bethany, W. Va.—Plans being prepared by W. H. Nicklas, 1900 Euclid Ave., Cleveland, Ohio, for brick and stone building for Presbyterian Church. Estimated cost, $50,000.

Charleston, W. Va.—Paul Eagan, Charleston, prepared plans for three-story brick, stone and terra cotta office building on State St. for A. H. Boyd. Estimated cost, $40,000.

Charleston, W. Va.—Plans being prepared by David Dick, Arch., Citizens' Bank Bldg., for two-story, 84x50-ft. addition to courthouse for Kanawha County. Estimated cost, $90,000.

Fairmont, W. Va.—Plans being prepared by W. H. Nicklas, Euclid Bldg., Cleveland, Ohio, for one-story church for First Presbyterian Church. J. W. Barnes, Chn., Bldg. Comm. Estimated cost, $75,000.

Huntington, W. Va.—Plans prepared by McMichael & Cain, Lyric Bldg., Richmond, Va., for two-story church for Huntington Institutional Baptist Congregation. Estimated cost, $100,000.

✚Spartanburg, S. C.—Contract awarded to WILLARD-BOGGS CONSTRUCTION CO., Spartanburg, at about $100,000, for remodeling passenger station of Southern Ry. Co.

Akron, Ohio—Bids will soon be received by Lauer & Young, Arch., Akron, for two-story, 99x76-ft. Sunday school and church for North Hill M. E. Congregation. Estimated cost, $40,000.

Bellaire, Ohio—Plans being prepared by Charles W. Bates, Board of Trade Bldg., Wheeling, W. Va., for bank, office and apartment at 32nd and Union St., for Farmers & Merchants' National Bank. Estimated cost, $40,000.

Cincinnati, Ohio—Plans being prepared for three-story college building for St. Xavier College. J. G. Steinkamp & Bro., 414 Walnut St., Cincinnati, Arch. Estimated cost, $200,000.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 20, by Clerk, Bd. of Education, City Hall, for bridge, tower and buildings A, B, C, D and E of new East Side High School at Madison Rd. and Erie Ave. Noted July 29.

Cleveland, Ohio—Bids will be received until Sept. [illegible] by George H. Smith, Arch., Colonial Arcade, for administration building for White Sewing Machine Co., East 78th St. and St. Clair Ave. Estimated cost, $90,000.

Cleveland, Ohio—Charles W. Somers, Cleveland, will build six-story building at Euclid Ave. and East Ninth St. Estimated cost, $300,000.

Cleveland Heights, Ohio—(Warrensville post office)—Jas. S. Schneider, 2248 Euclid Ave., Cleveland, prepared plans for church on Cedar Rd. for Plymouth Congregational Church. Estimated cost, $75,000.

✚Columbus, Ohio—Contract awarded to B. F. SMITH Co., Columbus, at $45,000, for country club at Arlington Ave. near storage dam. Noted Aug. 12.

✚Columbus, Ohio—Contract awarded to R. H. EVANS & CO., Columbus, at $116,000, by Board of Trustees of Ohio State University for Home Economics Building. Noted Aug. 19.

Columbus, Ohio—Bids will be received about Oct. 1st by C. E. Steeb, Secy., Ohio State University, for one- and two-story and basement, 120x250-ft. shop building for Ohio State University. Noted Aug. 12.

✚Dayton, Ohio—Contract for nine-story hotel at Fifth and Wilkerson St., for William C. Myers, awarded to T. A. GRAHAM, Springfield, at about $300,000.

Deshler, Ohio—Baltimore & Ohio R.R. and Cincinnati, Hamilton & Dayton Ry. will build new depot at Deshler.

Eaton, Ohio—Plans have been prepared by Thies & Thies, Arch., Dayton, for courthouse. Election will be held in November to vote on $250,000 bonds.

Lancaster, Ohio—Election will be held to vote on $100,000 bonds for high school.

Madison, Ohio—Plans being prepared by Franz C. Warner, Arch., Cleveland, for two-story and basement, 62x100-ft. high school. Estimated cost, $55,000.

Toledo, Ohio—(Official)—Bids will be received until noon, Oct. 1, by A. W. Stowe, Pres., Bd. of Dir., Toledo College, for addition to Toledo University.

Xenia, Ohio—Election will be held in November to vote on $135,000 bonds for manual training school and playground.

✚Youngstown, Ohio—Contract for business block on West Federal St. for Ernest Salow has been awarded to HELLER BROS. CO.

✚Hammond, Ind.—(Official)—Contract awarded to JOHN H. McCLAY, Hammond, at $139,190, for Hammond Industrial High School. Noted Aug. 26.

Marion, Ind.—Bids will be received about Oct. 27 for high school for city. Hiram Elder, Marion, Arch. Estimated cost, $150,000.

Detroit, Mich.—Joseph L. Gwizdowski, Detroit, prepared plans for building at Junction and Michigan Ave. for Polish Union Society of Detroit. Estimated cost, $50,000.

Lake Linden, Mich.—Plans being prepared by John D. Chubb, Arch., Chicago, Ill., for three-story and basement, 98x170-ft. high school. Estimated cost, $100,000.

✚Chicago, Ill.—Contract for three-story, 350x700-ft. marble building for Marshall Field Museum of Natural History awarded to NORCROSS BROS. CO., 103 Park Ave., New York, N. Y., at $5,000,000. Noted July 29.

East St. Louis, Ill.—Newton P. Storey, Arch., East St. Louis, preparing plans for four-story hotel at Third St. and Broadway for John J. Wies.

Evanston, Ill.—Northwestern University and Garrett Biblical Institute will build new theological group on university campus. First building will be dormitory. Estimated cost, $150,000.

SUBWAY—PHILADELPHIA, PENN.

Bids were received Aug. 16 by A. M. Taylor, Dir. Dept. of City Transit, for the construction of subway and station under Filbert St., City Hall and South Penn Sq. from: (A) Foundation Co., 233 Broadway, New York, N. Y.; (B) Snare & Triest Co., Pier No. 40, South Wharves, Philadelphia; (C) F. L. Cranford, Inc., and Smith, Hauser & MacIsaac, Inc., Mail St. and Broadway, New York, N. Y.; (D) New York and New Jersey Construction Co., 30 East 42nd St., New York, N. Y.; (E) Keystone State Construction Co., 704 Pennsylvania Bldg., Philadelphia; (F) Arthur McMullen Co., 149 Broadway, New York, N. Y. The item bids were as follows:

	A	B	C	D	E	F
1,000 cu.yd. excavation above elevation zero	$4.00	$3.00	$4.00	$5.00	$3.00	$5.00
1,000 cu.yd. excavation below elevation zero	10.00	5.00	25.00	7.50	7.00	5.00
100 vertical ft. c.-i. cylinder columns, 4 ft. 6 in. diameter	100.00	50.00	40.00	80.00	50.00	100.00
10,000 lb. riveted steel columns	.06	.035	.05	.06	.05	.04
100 cu.yd. class A concrete	10.00	10.00	8.00	12.00	12.00	10.00
100 cu.yd. class C concrete	8.00	7.00	7.00	10.00	10.00	9.00
1,000 sq.ft. concrete sheathing	.50	1.00	.60	.20	.50	.15
1,000 cu.yd. backfilling	.40	1.00	1.00	.50	.50	.01
100 cu.yd. brick masonry	16.00	12.00	20.00	16.00	25.00	15.00
100 bbl. grout	3.00	4.00	5.00	3.00	5.00	2.00
2 M. ft. b.m. yellow-pine lumber	80.00	50.00	100.00	50.00	100.00	50.00
10,000 lb. steel girders	.045	.035	.04	.05	.03	.04
10,000 lb. steel beams	.045	.035	.035	.05	.03	.04
10,000 lb. steel rods	.035	.03	.05	.03	.05	.03
1,000 sq.ft. steel sheathing	1.00	1.00	.60	.50	1.50	.40
1,000 sq.ft. 1-ply waterproofing	.10	.06	.06	.04	.10	.05
1,000 sq.ft. 2-ply waterproofing	.12	.10	.09	.06	.20	.07
100 sq.ft. safety treads	.90	1.50	1.50	1.00	1.00	.50
1,000 lin.ft. 5-in. or 6-in. vitrified clay pipe	.50	.40	1.50	.50	.60	.20
1,000 lin.ft. 8-in. or 10-in. vitrified clay pipe	.70	.60	1.50	.75	1.00	.40
1,000 lin.ft. 12-in. vitrified clay pipe	1.00	.80	1.60	1.00	1.20	.75
1,000 lin.ft. 15-in. or 18-in. vitrified clay pipe	1.20	1.00	1.75	1.25	1.80	1.25
10,000 lb. c.-i. pipe	.03	.02	.03	.03	.03	.03
1,000 lb. steel gratings	.06	.06	.07	.08	.15	.06
2,000 sq.ft. vault lights	2.00	1.20	1.50	1.50	1.50	2.00
1,000 duct ft. electric ducts	.20	.12	.20	.10	.26	.12
100 sq.yd. wood block paving	3.50	3.50	4.50	3.50	4.50	3.00
100 sq.yd. asphalt paving	3.50	2.50	4.00	3.00	3.50	3.00
100 sq.yd. granolithic paving	2.25	2.00	3.00	2.50	2.70	2.00
500 lin.ft. resetting granite curb	.50	.60	.50	.60	.20	.50
Extended totals	$1,763,870	$2,787,240	$2,404,770	$2,486,980	$1,737,320	$2,286,060

Rockford, Ill.—Bids will be received until Sept. 20 by Board of Education for two-story, 115x130-ft. brick school. Frank A. Carpenter, Rockford, Arch. Estimated cost, $80,000.

Springfield, Ill.—Bids will be received until Sept. 20 by Louis G. Stevenson, Secy. of State, for remodeling south and north wing of State Capitol. James B. Dibelka, 130 North Fifth Ave., Chicago, Arch.

De Pere, Wis.—St. Norberts College will build an addition. Estimated cost, $70,000.

+Madison, Wis.—Contract awarded to WISCONSIN CONSTRUCTION CO., Chippewa Falls, at about $110,000, for physics building at University of Wisconsin. Arthur Peabody, Arch.

Milwaukee, Wis.—Plans prepared by Kirchoff & Rose, Arch., Milwaukee, for six-story commercial building at Chicago and Milwaukee St. Estimated cost, $100,000.

Milwaukee, Wis.—Bids being received by John Paul, Arch., St. Francis, for edifice for Polish National Catholic congregation, at Sixth and Hayes Ave. Estimated cost, $45,000.

+Milwaukee, Wis.—Contracts awarded for new building at Milwaukee Infants Home and Hospital at Hartford Ave. and Bradford Pl., to S. J. BROCKMAN, mason work; F. ERDMANN, carpenter work; JESKE & BRO., sheet metal; C. HENNECKE CO., iron; and WINDING & GEZELSCHAP, roofing. Fitzhugh Scott, 424 Jefferson St., Arch.

Chatfield, Minn.—Tyrie & Chapman, Arch., Auditorium Bldg., Minneapolis, preparing plans for two-story high school. Estimated cost, $50,000.

Maynard, Minn.—Plans being prepared for three-story school by E. F. Broomhall, Duluth. Estimated cost, $40,000.

Lincoln, Neb.—Bids will be received until 4 p.m., Sept. 25, by Board of Regents of University of Nebraska, for botany and zoology building. Estimated cost, $180,000. J. S. Dales, Secy.

Omaha, Neb.—P. H. Philbin, Omaha, plans 14-story hotel at 16th and Douglas St.

STATE HIGHWAYS—CALIFORNIA

Bids were received by the State Highway Commission, Sacramento, Calif., for constructing highways in Tulare, Division VI, Route 10, Section A, Tulare, Division VI, Routes 4 and 10, Sections D and E, Contra Costa, Glenn and Tehama Counties, from (A) Shattuck & Nimmo Warehouse Co., Bakersfield; (B) Rogers Bros. Co., Los Angeles; (C) Highway Paving & Construction Co., San Francisco; (D) Bent Bros., Los Angeles; (E) White & Gaskill, Long Beach; (F) John D. Marsh, Bakersfield; (G) M. Blumenkranz, Davis; (H) Taylor & Berliner, Los Angeles; (I) F. Rolandi, San Francisco; (J) Contra Costa Construction Co., Berkeley; (K) James Fitzpatrick, Sacramento; (L) Theodore Maretas and Thomas H. Muller, San Francisco; (M) J. H. Falconer, Pinole; (N) O'Brien Bros., Martinez; (O) Spring Construction Co., Berkeley; (P) W. A. Bechtel, Alton; (Q) W. B. Hunt & Sons, Alameda; (Q-1) Hard Bros., Ukiah; (R) A. C. McLean Construction Co., San Francisco; (R-1) W. J. Schmidt, Berkeley; (S) Palmer & McBryde, San Francisco; (S-1) Richard Rothwell, Los Angeles; (T) Urban Construction Co., San Francisco; (T-1) Blanchard Brown Co., San Francisco; (U) Bates Borland & Ayer, Oakland; (U-1) Occidental Construction Co., Los Angeles; (V) Fairbanks & Baechtel, Willits; (V-1) G. W. Conners, Eureka; (W) L. F. Gerdetz, San Francisco; (W-1) Marin Rock Co., San Anselmo; (X) H. G. Vaughan Construction Co., San Francisco; (X-1) C. H. & A. W. Gorrill, San Francisco; (Y) P. H. Hoare, Oakland; (Y-1) H. H. & C. M. Harlan, Williams; (Z) Engineer's Estimate. The item bids were as follows:

Tulare County, Division VI, Route 10, Section A

	A	B	C	D	E	F	Z
2970 cu.yd. excavation	$0.50	$1.25	$0.65	$0.70	$0.55	$0.70	$0.60
2220 cu. d. burrow excavation	.50	1.25	.85	.75	.55	.70	.60
210 lin.ft. 12-in. corrugated iron pipe	.50	1.00	.60	.60	.65	.60	.40
174 lin.ft. 18-in. corrugated iron pipe	.60	1.00	.70	.72	.75	.80	.50
11 cu.yd. concrete, Class B, for culverts and monuments	10.00	16.00	10.00	15.60	14.00	20.00	10.00
3840 cu.yd. concrete, Class B, for pavement	3.80	4.20	3.45	4.00	3.00	2.90	2.85
16 monuments	1.00	5.00	1.00	1.00	1.00	1.00	.50
Extended totals	$17,522	$23,255	$17,439	$19,542	$14,812	$15,270	$17,933

Tehama County

	I	K	S	(S-1)	(V-1)	(Y-1)	Z
83,400 cu.yd. excavation unclassified	$0.445	$0.45	$0.49	$0.59	$0.49	$0.46	$0.45
2268 lin.ft. 12-in. corrugated iron pipe	.50	.45	.40	.50	.40	.40	.40
670 lin.ft. 18-in. corrugated iron pipe	.60	.55	.50	.50	.50	.50	.50
288 lin.ft. 24-in. corrugated iron pipe	1.00	.70	.70	.75	.60	.75	.65
700 cu.yd. concrete, Class B, for culverts, monuments and slope paving	12.00	11.00	15.00	12.00	12.00	11.00	110.00
120 cu.yd. concrete, Class B, retaining walls	10.00	9.00	12.00	12.00	10.00	11.15	8.00
236 monuments	1.00	1.00	1.00	1.00	1.00	1.50	.50
Extended totals	$48,773	$48,136	$54,485	$60,967	$52,117	$49,214	$54,093

Contra Costa County

	I	J	K	L	M	N	O	P	Q	(Q-1)	R
65,000 cu.yd. excavation unclassified	$0.47	$0.44	$0.45	$0.45	$0.47	$0.43	$0.46	$0.57	$0.48	$0.65	$0.47
640 lin.ft. 12-in. corrugated iron pipe	.50	.50	.45	.90	.50	.40	.53	.50	.80	.80	.40
680 lin.ft. 15-in. corrugated iron pipe	.60	.60	.50	1.10	.60	.50	.63	.50	.80	.90	.50
470 lin.ft. 18-in. corrugated iron pipe	.70	.70	.55	1.30	.70	.80	.75	.50	.80	1.00	.60
92 lin.ft. 21-in. corrugated iron pipe	.90	.80	.55	1.50	.75	1.00	.85	.50	.80	1.00	.75
370 lin.ft. 24-in. corrugated iron pipe	1.00	.90	.75	1.80	1.00	1.20	1.05	.50	.80	1.00	1.00
72 lin.ft. 30-in. corrugated iron pipe	1.25	1.00	1.00	2.00	1.10	1.60	1.50	.50	.80	1.00	1.20
555 cu.yd. concrete, Class B, culverts and monuments	12.50	10.00	15.00	12.50	13.05	10.50	11.50	12.50	12.00	12.00	15.00
147 monuments	1.00	2.00	1.00	1.60	2.00	1.00	1.50	1.00	.85	1.00	1.00
Extended totals	$39,234	$35,979	$39,008	$39,306	$39,662	$35,547	$38,198	$45,297	$39,844	$51,185	$40,425

	(R-1)	S	(S-1)	T	(T-1)	U	(U-1)	V	(V-1)	Z
65,000 cu.yd. excavation unclassified	$0.43	$0.58	$0.40	$0.36	$0.40	$0.39	$0.47	$0.40	$0.455	$0.50
640 lin.ft. 12-in. corrugated iron pipe	.50	.50	.40	.40	.48	.50	.55	.50	.40	.50
680 lin.ft. 15-in. corrugated iron pipe	.60	.60	.40	.50	.55	.60	.65	.54	.50	.60
470 lin.ft. 18-in. corrugated iron pipe	.60	.70	.65	.50	.65	.75	.75	.65	.60	.70
92 lin.ft. 21-in. corrugated iron pipe	.60	.80	.70	.60	.75	1.00	.85	.60	.75	.75
370 lin.ft. 24-in. corrugated iron pipe	.75	.90	.75	.70	1.00	1.25	.90	.75	1.00	.80
72 lin.ft. 30-in. corrugated iron pipe	1.00	1.00	1.00	1.00	1.50	1.50	1.00	.70	1.00	1.10
555 cu.yd. concrete, Class B, culverts and monuments	12.00	15.00	12.00	9.00	17.00	11.50	12.00	12.00	11.00	12.00
147 monuments	.50	1.00	1.00	1.50	1.00	1.00	1.00	1.00	1.00	.50
Extended totals	$36,098	$47,708	$34,054	$29,832	$37,116	$33,623	$38,987	$34,189	$37,216	$46,344

Tulare County, Division VI, Routes 4 and 10, Sections D and B

	A	B	C	D	E	F	G	H	Z
14,350 cu.yd. excavation	$0.60	$1.00	$0.60	$0.70	$0.45	$0.60	$0.60	$0.70	$0.50
2000 cu.yd. burrow excavation	.60	1.00	.70	.80	.50	.59	.75	.70	.75
210 lin.ft. 12-in. corrugated iron pipe	.50	1.00	.55	.60	.65	.50	.50	.50	.40
130 lin.ft. 18-in. corrugated iron pipe	.60	1.00	.60	.72	.75	.60	.60	.60	.55
195 lin.ft. 24-in. corrugated iron pipe	.70	1.50	1.00	.84	.85	.70	.75	1.00	.70
248 cu.yd. concrete, Class B, culverts and monuments	10.00	16.00	9.00	10.55	14.00	10.00	12.25	10.00	10.00
6350 cu.yd. concrete, Class B, pavement	3.00	3.75	3.20	3.58	2.85	2.68	4.25	4.00	2.90
1500 lin.ft. guard rail	.50	.50	.30	.35	.60	.50	.60	.50	.40
51 monuments	1.00	3.00	1.00	1.00	1.00	1.00	1.09	1.00	.50
Extended totals	$32,460	$45,666	$33,451	$37,953	$30,778	$30,409	$41,415	$40,504	$35,060

Glenn County

	C	H	Q	W	(W-1)	X	(X-1)	Y	Z
14,700 cu.yd. excavation unclassified	$0.625	$0.60	$0.58	$0.50	$0.60	$0.54	$0.55	$0.70	$0.65
300 lin.ft. 12-in. corrugated iron pipe	.55	1.00	.60	.75	.45	1.00	.50	.40	.40
210 lin.ft. 18-in. corrugated iron pipe	.60	1.50	.60	1.00	.65	1.50	.60	.60	.50
120 lin.ft. 24-in. corrugated iron pipe	1.00	2.00	.60	1.25	.75	2.00	.75	.75	.60
176 cu.yd. concrete, Class B, culverts and monuments	9.00	10.00	10.00	9.00	9.00	9.75	9.00	12.50	10.00
9190 cu.yd. concrete, Class B, pavement	3.10	2.40	3.00	3.00	2.85	2.645	2.95	3.45	2.75
440 lin.ft. guard rail	.30	.60	.40	.40	.35	.75	.35	.50	.35
62 monuments	1.00	1.00	.50	1.00	1.50	1.00	1.00	2.00	1.00
Extended totals	$39,865	$38,817	$38,441	$37,327	$37,204	$35,209	$37,362	$44,875	$42,665

Devils Lake, N. D.—Masonic Lodge will build temple. Estimated cost, $45,000.

Great Falls, Mont.—Bids will soon be received for St. Marys Academy at Fourth Ave., North and Seventh St. George Shanley, Arch. Estimated cost, $40,000.

✚Kansas City, Mo.—Contract awarded to KANSAS CITY CONSTRUCTION CO., at $60,000, for two-story brick hospital and chapel at 2800 Main St. for Sisters of St. Mary. Victor J. Klutho, Syndicate Trust Bldg., St. Louis, Arch.

St. Joseph, Mo.—Bids will be received about Oct. 1 by Walter Boschen, St. Joseph, Arch., for three-story, 60x120-ft. physicians' and surgeons' building for W. F. Kirkpatrick. Noted Aug. 12.

St. Louis, Mo.—Plans have been approved by Director of Public Welfare for house of detention at 14th St. and Clark Ave. Estimated cost, $120,000. Noted Dec. 10 and Jan. 7.

Amarillo, Tex.—Citizens contemplate Carnegie library. W. H. Coon, Chn. Civic Com. of Bd. of City Develop. Estimated cost, $40,000.

Austin, Tex.—Citizens contemplate issuing $250,000 bonds for school buildings.

Afton, Okla.—Election will be held Sept. 28 to vote on $75,000 bonds for county court house.

Choteau, Okla.—Election will be held to vote on $200,000 bonds for county court house and four bridges across Grand River.

Oklahoma, Okla.—Oklahoma Amusement Co. will build theater at 19 North Robinson St. Estimated cost, $75,000.

BARGE CANAL WORK—ALBANY N. Y.

Contract No. 37

✚Bids were received Aug. 17 by W. W. Witherspoon, Supt. of Pub. Wks., for the construction of a harbor and dockwall on the south side of the Mohawk River at Canajoharies under Terminal Contract No. 37, from, (A) Engineers Estimate, (B) A. M. Haell, 90 West St., New York, N. Y., (C) Champlain Engineering & Contracting Corporation, Saratoga Springs, N. Y., (D) Lupfer & Remick, Buffalo, N. Y., (E) HOLLER & SHEPARD, Rochester, N. Y., (awarded contract), (F) Eastover Construction Co., Utica, N. Y., (G) American Pipe & Construction Co., Philadelphia, Penn. The item bids were as follows:

	A	B	C	D	E	F	G
24,000 cu.yd. excavation	$0.40	$0.48	$0.60	$0.30	$0.38	$0.45	$0.45
900 cu.yd. embankment	.12	.20	.12	.12	.12	.12	.12
4.2 M ft. b.m. creosoted lumber	65.00	100.00	60.00	75.00	65.00	65.00	65.00
1300 lin.ft. foundation piles	.25	.30	.25	.30	.25	.30	.30
5300 lin.ft. reinforced concrete sheet piles	2.40	2.51	2.40	2.47	2.30	2.40	2.50
250 cu.yd. first class reinfosced concrete	13.00	11.00	11.00	13.00	12.00	15.00	13.00
110 cu.yd. second class reinforced concrete	9.00	8.00	8.00	10.00	8.00	10.00	9.00
2400 sq.yd. concrete slab pavement	1.50	1.50	1.45	1.80	1.50	1.80	1.75
300 cu.yd. third class rip-rap	2.50	3.00	2.30	2.50	2.50	2.50	2.50
21,000 lb. structural steel	.04	.04	.05	.045	.04	.04	.04
19,000 lb. metal reinforcement	.035	.035	.04	.04	.025	.035	.035
2700 lb. ison castings—plain	.04	.04	.035	.04	.04	.04	.04
420 lin.ft. malleable c.i. nosing	1.25	1.00	1.25	1.25	1.25	1.25	1.25
65 fender fastenings	1.20	1.10	1.25	1.20	1.20	1.20	1.20
Extended totals	$33,832	$36,152	$38,115	$32,940	$32,572	$36,427	$36,227

✚Pocatello, Idaho—Contract awarded to LeDOUX [illegible], LeDOUX, Portland, Ore., at about $75,000, for four-story, [illegible] ft., steel and brick building for local Order of Elks. [illegible]talaing & Dougan, Henry Bldg., Portland, Arch.

Medical Lake, Wash.—Bids will be received until [illegible] 21 by State Board of Control for three-story administration building, custodian building, two ward buildings and laundry and power building for Institution for Feeble Minded. Estimated cost, $200,000. Noted Aug. 5 and 19.

Sedro Woolley, Wash.—Bids will be received until [illegible] m., Sept. 21, by State Board of Control, Olympia, for buildings at Northern Hospital at Norlum, near Sedro Woolley. Noted Aug. 5.

Vancouver, Wash.—(Official)—Bids will be received until noon, Sept. 21, by Board of Control, Olympia, for State School for Blind. D. Nichols and J. A. Zittel, Spokane, Arch. Estimated cost, $75,000. Noted Aug. 19.

Portland, Ore.—Plans are being prepared for six-story and basement building for Loyal Order of Moose. B. E. Yeamans, Deputy Supreme Dictator of Oregon.

Los Angeles, Calif.—Plans have been prepared by Norman F. Marsh, Broadway Central Bldg., for group of high school buildings at Hooper and Compton Ave. and 38th St., to be known as Jefferson High School. Estimated cost, $200,000. Noted Mar. 11.

SEWER—CLEVELAND, OHIO

Bids were received Aug. 18 by the Commissioner of Purchases and Supplies for the construction of a concrete open shannel outfall sewer approximately 630 ft. long and a submerged outfall pipe line about 3600 ft. long, from, (A) Great Lakes Dredge & Dock Co., (B) American Construction Co., (C) Merritt & Chapman Derrick & Wrecking Co., (D) Charles Fath & Co., (E) Cleveland Engineering & Construction Co. The item bids were as follows:

	A	B	C	D	E
2185 lin.ft. 60-in. steel pipe	$18.00	$18.75	$22.62	$24.00	$28.00
2185 lin.ft. 60-in. c.i. pipe	20.45	22.00	34.50	26.00	34.00
2185 lin.ft. 60-in. concrete pipe	.....	27.00	.....	.....	.....
410 lin.ft. 72-in. c.i. pipe	28.75	22.00	46.50	34.00	35.00
410 lin.ft. 72-in. concrete pipe	25.00	25.00	51.50	40.00	38.00
1 tapered section of steel pipe	500.00	800.00	2120.00	6500.00	.....
1 special "Y" connection	500.00	.....	1950.00	.....	600.00
1 head chamber	650.00	.....	1390.00	.....	800.00
5700 lin.ft. wood piling 32 ft. or less long	.33	.40	.40	.45	.35
7200 lin.ft. wood piling more than 32 ft. long	.30	.45	.45	.45	.40
300 lin.ft. wood anchor piling	.38	1.75	.80	1.50	.50
25 timber supports	25.00	40.00	25.00	25.00	20.00
22 M ft. m.b. timber for caps and stringers	75.00	82.00	75.00	90.00	100.00
1250 cu.yd. concrete	10.50	15.00	10.00	14.00	8.00
1100 sq.yd. brick invertment	1.75	1.50	4.30	2.50	3.00
40,000 lb. steel reinforcing	.03½	.04	.06	.03½	.05
1275 lin.ft. iron pipe railing	.95	.90	.47	1.00	1.00
1 connections to present sewer	600.00	200.00	800.00	500.00	1500.00
Extended totals	$95,671	$109,985	$175,513	$125,915	$137,230

The Gardner Governor Co., Quincy, Ill., reports a large increase in its business, especially in the export field. The company has recently received several carload orders from Japan, Cuba and Russia. The contracts call for almost every type of pump from small boiler feeders to general-service, sugar-house and water-works pumps.

The Hydraulic Press Mfg. Co., Mount Gilead, Ohio, has recently changed the officers of the company as follows: A. Q. Tucker, president; W. G. Beebe, vice-president; Frank B. McMillin, general manager and secretary; and M. W. Spear, treasurer. Dr. N. Tucker has been made a director.

TEALL AVE. SEWER EXTENSION, SYRACUSE, N. Y.

✚Bids were received Aug. 5 by the Syracuse Intercepting Sewer Board, Syracuse, N. Y., for the construction of the Teall Ave. Sewer Extension or Drainage Ditch, from: (A) FRANK S. SPOSATTO, Syracuse (awarded contract); (B) Frank George; (C) John C. Schrade; (D) Samuel Renn; (E) Whiting Construction Co.; (F) C. T. Hookway Construction Co.; (G) Mondo Construction Co.; (H) Charles Bonn & Nicholas Marnell; (I) J. F. Leary Construction Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
Clearing (lump sum)	$600.00	$300.00	$500.00	$300.00	$100.00	$200.00	$400.00	$250.00	$100.00
11,200 cu.yd. excavation	.45	.45	.55	.49	.60	.50	.49	.50	.50
165 cu.yd. lining	2.00	2.00	3.00	1.74	.285	1.50	3.00	3.00	1.50
1030 lin.ft. 60-in. reinforced concrete pipe sewer, Sect. A	5.80	8.00	8.00	6.95	8.25	7.50	6.30	7.75	8.00
1030 lin.ft. 60-in. horseshoe connecting sewer, Sect. A (alternate)	6.25	9.00	9.00	.....	6.17	7.50	6.00	.....	8.00
1030 lin.ft. 60-in. U-shaped connecting sewer, Sect. A (alternate)	7.60	9.00	8.00	6.64	7.38	7.40	6.20	8.10	9.00
1630 lin.ft. 60-in. reinforced concrete pipe sewer, Sect. B	9.75	11.00	11.50	15.14	14.50	15.00	17.00	16.30	17.00
1630 lin.ft. 60-in. horseshoe connecting sewer, Sect. B (alternate)	9.50	11.35	12.00	.....	12.54	15.00	16.00	.....	17.00
1630 lin.ft. 60-in. U-shaped connecting sewer, Sect. B (alternate)	9.45	11.35	11.00	13.55	13.60	14.00	17.00	13.50	18.00
Mildred Ave. junction (lump sum)	235.00	282.00	500.00	475.00	620.00	400.00	300.00	350.00	800.00
Horn Ave. junction (lump sum)	550.00	526.00	500.00	675.00	900.00	500.00	300.00	500.00	1000.00
210 lin.ft. 10-in. vitrified pipe sewer	.75	.65	.50	.90	1.00	.80	1.00	.50	.60
60 lin.ft. manholes	3.00	3.00	5.00	4.75	5.00	5.00	5.00	4.50	6.00
5 manhole frames and covers	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7 receivers	15.00	20.00	40.00	15.00	20.00	25.00	35.00	15.00	15.00
50 cu.yd. concrete, Class A	7.00	10.00	9.00	8.00	9.00	8.50	8.00	10.00	8.00
270 cu.yd. concrete, Class B	6.75	6.50	8.00	8.00	8.00	8.00	7.00	9.00	7.00
3000 lb. metal reinforcement	.05	.04	.05	.03	.05	.03	.05	.05	.05
40 sq.yd. cobblestone paving	1.00	.50	1.50	.90	1.50	.80	.90	1.00	1.00
960 sq.yd. rubble paving	2.00	1.75	2.00	2.25	2.45	2.60	1.10	3.75	2.50
960 sq.yd. concrete paving	2.00	1.50	2.00	1.55	1.80	2.40	1.10	2.50	1.50
13 M ft. b.m. timber and lumber	40.00	45.00	45.00	49.00	50.00	42.00	35.00	70.00	40.00
1050 posts	.45	.45	.30	.55	.60	.60	.50	.54	.50
10,500 lin.ft. wire fencing fabric (per 100 ft.)	4.00	5.00	2.50	2.39	3.70	3.50	4.00	5.00	2.75
Extended totals	$34,804	$38,984	$40,962	$42,419	$42,522	$41,637	$44,980	$45,234	$49,592

SAUGATUCK RIVER BRIDGE, WESTPORT, CONN.

Bids were received Aug. 10 by Charles J. Bennett, State Highway Commissioner, Hartford, Conn., for the construction of a concrete bridge across the Saugatuck River at Westport, Conn., from: (A) Charles A. Sibley, 902 Chapel St., New Haven; (B) Henry E. Fox, 81 East 125th St., New York; (C) Hudson River Co., Inc., New York; (D) Barker-Bonner, Inc., 18 East 41st St., New York; (E) Barzhagi-Vought Co., Inc., 299 Madison Ave., New York; (F) McHARG-BARTON CO., 171 Madison Ave., New York (awarded contract on alternate 1); (G) Thomas A. Scott Co., New London; (H) Lathrop & Shea Co., New Haven; (I) North Eastern Construction Co., 225 Fifth Ave., New York; (J) Connecticut Good Roads & Construction Co., New Britain; (K) Jobson-Gifford Co., 30 East 42nd St., New York; (L) A. L. Guidone & Sons, Inc., 131 East 23rd St., New York; (M) Daniel F. Toomey, South Norwalk. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
3000 cu.yd. excavation below mean low water	$4.50	$2.50	$3.00	$4.40	$2.75	$1.20	$2.76	$2.75	$3.45	$2.50	$3.50	$3.50	$1.50
4650 cu.yd. excavation above mean low water	.75	1.50	1.00	3.00	1.00	1.20	1.54	1.50	2.82	2.00	1.50	1.25	1.50
Piles delivered on work													
1800 ft. (a) 10 to 20 ft. length	.08	.14	.10	.40	.12	.12	.1536	14	.13	.12	.12	.11	14
1600 ft. (b) 20 to 30 ft. length	.10	.14	.10	.33	.12	.17	.1536	16	.13	.12	.15	.115	14
12,000 ft. (c) 30 to 50 ft. length	.15	.17	.10	.25	.12	.17	.1842	20	.16	.14	.20	.14	18
20,000 ft. (d) 50 to 70 ft. length	.22	.20	.15	.23	.17	.17	.2088	50	.18	.20	.25	.20	50
Piles driven in place													
1800 ft. (a) 10 to 20 ft. length	.20	.40	.20	.35	.31	15	43	15	.18	.30	.13	.12	29
1600 ft. (b) 20 to 30 ft. length	.22	.40	.20	.21	.16	15	.21	.25	.15	.30	.15	.12	40
12,000 ft. (c) 30 to 50 ft. length	.27	.40	.20	.17	.10	15	.187	.30	.10	.40	.16	.14	60
20,000 ft. (d) 50 to 70 ft. length	.30	.40	.20	.14	.075	10	.155	.35	.09	.35	.20	.18	1.00
100 tons Riprap in place	2.00	2.00	1.00	2.00	2.00	1.00	3.68	2.50	2.40	3.00	1.75	2.25	1.50
500 cu.yd. 1:3:5 concrete	7.50	7.00	14.00	12.90	8.00	15.00	25.36	9.50	6.80	41.00	8.00	10.00	18.00
1435 cu.yd. Granite ashlar masonry (alternate 1)	28.00	20.50	30.00	33.00	15.75	24.00	35.87	25.50	30.00	30.00	35.00	30.00	28.00
1435 cu.yd. brown stone ashlar masonry (alternate 2)	20.00	22.50	25.00	27.00	17.50	24.00	29.72	25.50	24.75	22.00	27.30	26.00	25.00
1435 cu.yd. granite rubble masonry (alternate 3)	14.00	12.00	15.00	32.00	10.25	21.00	25.79	23.00	24.00	25.00	18.00	19.50	23.00
1.5 M. timber fender piling	60.00	60.00	100.00	80.00	70.00	55.00	80.00	65.00	60.00	150.00	105.00	55.00	70.00
2182 cu.yd. 1:2:4 concrete	12.50	9.00	14.00	13.70	10.75	9.00	19.04	17.50	13.20	12.00	12.50	9.50	20.00
233,300 lb. reinforcement	.03	.03	.04	.032	.03	.025	.046	.04	.03	.035	.03	.03	.05
832 ft. parapet wall	4.25	6.00	3.00	2.70	3.00	2.50	4.29	4.80	5.00	3.00	4.00	3.00	5.00
10,675 sq.ft. concrete walk	.13	.12	.15	.18	.15	.18	.21	.15	.19	.20	.20	.14	.23
1625 ft. concrete curb	.45	.40	.60	.80	1.00	.80	.68	.35	.35	1.00	.60	.50	.75
100 ft. resetting curb	1.00	.30	.20	.12	.50	.15	.37	.25	1.00	.60	.25	.25	.20
1300 gal. pitch waterproof	.30	.30	.25	.18	.50	.25	.307	.20	.20	.20	.20	.30	.30
735 cu.yd. fill on bridge	1.25	1.00	1.50	1.00	1.00	1.00	1.84	.65	.75	1.00	.75	.20	.75
Remove old bridge (lump sum)	$850	$1000	$3000	$7000	$1000	$800	$1228	$2950	$2000	$1000	$1000	$700	$1000
Temporary foot bridge (lump sum)	3000	4000	4000	3000	3000	2500	3267	3000	3500	3000	2500	4500	4000
Extended total—Alternate 1	$131,026	$112,203	$133,980	$154,148	$ 98,401	$101,162	$169,954	$145,341	$133,101	$156,633	$137,057	$120,613	$181,378
Alternate 2	119,546	115,073	126,805	145,538	100,912	101,162	161,129	145,341	125,567	145,153	126,001	114,873	177,073
Alternate 3	110,936	100,006	112,455	152,713	90,508	96,857	155,489	141,754	124,491	149,458	112,656	105,545	174,203

PIER NO. 78—PHILADELPHIA, PENN.

Bids were received Aug. 9 by the Department of Wharves, Docks and Ferries for the construction of the substructure of Pier No. 78 and its adjacent bulkhead shed in the Delaware River from, (A) Snare & Triest Co., 253 Broadway, New York, N. Y., (B) Daniel S. Bader, 1345 Arch St., Philadelphia, (C) Arthur McMullen Co., 149 Broadway, New York, N. Y., (D) American Paving & Construction Co., 211 South Ninth St., Philadelphia, (E) Underpinning & Foundation Co., 290 Broadway, New York, N. Y., (F) Armstrong & Latta Co., Land Title Bldg., Philadelphia. The item bids were as follows:

	A	B	C	D	E	F
Rip rap for revetting the front of the sheet piling, per ton of 2,000 lb	$1.00	$1.25	$1.50	$1.75	$2.00	$1.60
Vertical or bearing piles	17.00	25.00	18.00	15.00	19.00	16.50
Inclined or spur piles	19.00	33.00	18.00	16.00	37.00	23.00
12-in. sheet piling, per horizontal lin.ft. of driven piling	21.00	32.00	20.00	32.00	35.00	26.00
8-in. sheet piling, per horizontal lin.ft. of driven piling	15.00	19.00	13.00	20.00	19.00	17.50
Sawed timber 6-in. thick and under, per M ft. b.m	55.00	80.00	50.00	65.00	55.00	60.00
Sawed timber, dimension sizes above 6 in. in thickness, per M ft. b.m	55.00	80.00	50.00	65.00	65.00	54.00
White oak for fenders, per M ft. b.m	60.00	100.00	50.00	65.00	91.00	66.00
No. 1 concrete, per cu.yd	6.00	7.50	10.00	12.00	14.00	13.00
No. 2 concrete, per cu.yd	10.00	7.00	9.00	9.00	9.00	8.00
Master Builders' finish on concrete paving, per sq.yd	.60	.70	.50	65	1.30	1.00
Cement finish on concrete paving, curbs, etc., per sq.yd	.40	.35	.50	.50	1.17	.65
Structural steel, per ton	55.00	82.00	51.00	50.00	66.30	56.00
Reinforcing steel, per ton	55.00	100.00	60.00	50.00	65.00	55.00
Nails, spikes, bolts, nuts and washers, per lb	.03	.05	.02	.05	.06	.03½
Cast steel column bases, per lb	.03	.04½	.03	.03	.06	.03½
Mooring posts, complete	125.00	75.00	100.00	78.00	65.00	125.00
Bollards, complete	45.00	75.00	75.00	40.00	15.00	75.00
12-in. drains, c.i.	7.00	5.00	6.00	10.00	3.25	8.00
6-in. drains, c.i.	5.00	5.00	4.00	10.00	2.00	5.00
Bolt sockets, tackle rings, foot holds and miscellaneous steel work, per lb	.05	.05	.10	.05	.10	.05
No. 1 Trus-Con curb bar, complete, per lin.ft	.18	.20	.15	.12	.15	.15
No. 2 Trus-Con curb bar, complete, per lin.ft	.20	.20	.15	.11	.15	.13½
Structural steel curbing, including fastenings, per lb	.03	.05	.03½	.06	.05	.03½
8-in. c.i. drain pipe, per lin.ft	1.00	1.25	1.00	1.00	2.00	1.50
Both armor plates, complete, including fastenings	500.00	1500.00	1200.00	1000.00	1750.00	1300.00
Universal safety treads, per lin.ft	1.00	1.40	1.20	.50	.75	1.50
65-pound 7-rails per ton	36.00	40.00	40.00	28.00	60.00	35.00
No. 6 splices for 85-pound rail, complete, with bolts, nuts and nut locks	2.00	2.50	2.00	16.00	3.00	2.25
9-in. girder rail, per ton	46.00	40.00	50.00	28.00	75.00	43.00
Splice bars, complete, for 9-in. girder rail, including bolts, nuts and nut locks	3.00	3.00	4.00	10.00	10.00	12.00
Tie rods with nuts complete	.75	.75	.70	5.00	25.00	1.60
Standard track spikes, per lb	.03	.05	.02	.03	.05	.02½
White oak ties, 7x9 in. sawed or hewn, to be set in stone ballast	1.50	1.50	2.00	1.50	3.00	2.70
White oak sawed ties and switch timber, per M ft. b.m	40.00	100.00	45.00	70.00	110.00	50.00
Stone ballast for railway tracks, per cu.yd	1.75	2.00	2.50	3.00	3.00	2.25
Iron ladders	10.00	25.00	10.00	50.00	35.00	10.00
6-in. concrete base for granite block paving, per sq.yd	.80	1.00	1.00	.90	1.75	.85
Granite block paving with sand cushion, per sq.yd	2.40	3.00	2.40	3.00	3.00	3.25
8-in. straight cut granite curb, per lin.ft	2.00	2.00	.90	2.50	3.50	2.00
8-in. curved cut curb, per lin.ft	2.50	3.50	1.50	2.75	7.00	2.85
5-in. bluestone curb, per lin.ft	.75	1.00	.80	1.00	2.50	.75
No. 3 open-mouth inlet, complete	75.00	110.00	50.00	80.00	150.00	125.00
No. 3 grate-top inlet, complete	75.00	110.00	50.00	80.00	75.00	115.00
12-in. vitrified clay pipe, per lin.ft	1.00	.75	.25	1.00	1.50	.60
Concrete sidewalk paving, per sq.yd	1.10	1.50	1.00	1.50	2.00	1.80
Cinder filling, per cu.yd	.20	.70	.35	.70	2.00	.50
Grading for paving, per cu.yd	.10	.75	.35	1.50	1.00	.30
Laborers with tools, including superintendence, per hour	.35	.20	.30	.25	.50	.35
Mechanics with tools, including superintendence, per hour	.80	.70	.50	.50	1.00	.75
Extended totals	$516,700	$529,000	$554,662	$569,000	$584,000	$610,000

Contracts to Be Let

Bids received until Sept. 25, 1915.

Filter Plant, Pumping Station, Pumps, Boilers, Force Mains, Stand Pipe and Appurtenances

East Liverpool, Ohio, Sept. 9, 1915.

Sealed Proposals for the construction of a Six (6) Million Gallon Mechanical Filter plant, River Intake, Pumping Station, Pumps, Boilers, Chimney, Stand Pipe, Electric Light Generators, Auxiliary Equipment, Force Mains and other appurtenances, will be received by the Director of Public Service of the City of East Liverpool, Ohio, at his office, Supervision of Water, Water-Works Department, Fourth Street, in said City, until twelve o'clock Noon, Central Standard Time, on Saturday, September 25th, 1915, and will then be opened and read publicly.

All bids shall be made upon the official proposal blanks attached to the instructions to bidders, specifications, and form of contract and bond, which may be seen at the office of the Director of Public Service, East Liverpool, Ohio, or may be had by bona fide bidders upon application to Chester & Fleming, Engineers, Union Bank Building, Pittsburgh, Pennsylvania, on deposit of a certified check for Fifty ($50.00) Dollars, which will entitle bidder to one set of plans and two copies of the specifications, covering the item on which he intends to bid. Proper receipt for each such deposit will be given and the money will be refunded provided plans and specifications are returned in good condition within Ten (10) days after reception of bids.

Each proposal shall be accompanied by a certified check made payable to the order of the Treasurer of the City of East Liverpool, Ohio, of not less than 3% of the total amount of the bid, but in no case shall this check be less than One Hundred ($100.00) Dollars. This check is to be conditioned that if the bid is accepted, a contract will be entered into and the performance of same secured within ten (10) days after notification of acceptance of the bid. In case bid is rejected, or contract entered into, check will be returned. Successful bidders will be required to furnish a corporate surety bond in an acceptable Surety Company, in the full amount of the contract, in accordance with the plans and specifications and further in accordance with Ordinance Number 1470 of the City of East Liverpool, Ohio.

The right is reserved to reject any or all bids.

E. J. SMITH, Director of Public Service.

CHESTER & FLEMING, Engineers,
Union Bank Building, Pittsburgh, Pa.

Bids received until Sept. 24, 1915.

Additional Boiler Capacity

Buffalo, N. Y.

Sealed proposals for Additional Boiler Capacity, Heating Work, at the Buffalo State Hospital, Buffalo, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2:30 o'clock P.M., Friday, September 24, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope, furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $625. The contractor to whom the award is made will be required to furnish a surety company bond in the sum of 50% of the amount of contract within 30 days after official notice of award of contract and in accordance with the terms of Specification No. 2312. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Buffalo State Hospital, Buffalo, N. Y., at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposals may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Dated September 1, 1915.

E. S. ELWOOD, Secretary,
State Hospital Commission.

Bids received until Oct. 19, 1915.

Superstructures, etc. for Elevated Railway

DEPARTMENT OF CITY TRANSIT

754 Bourse Building, Philadelphia, Sept. 9, 1915.

Sealed proposals, properly endorsed and addressed to the undersigned at the office above mentioned, will be received until 12 o'clock noon on Tuesday, October 19, 1915, and opened immediately thereafter, for the following:

Contract No. 511—Steel superstructure and appurtenant work for two-track elevated railway in Front Street from Callowhill Street to south of Girard Avenue, comprising about 4074 linear feet of structure.

Contract No. 512—Steel superstructure and appurtenant work for two-track elevated railway in Front Street and Kensington Avenue from south of Girard Avenue to north of York Street, comprising about 7128 linear feet of structure.

Contract No. 513—Steel superstructure and appurtenant work for two-track elevated railway in Kensington Avenue from north of York Street to north of Ontario Street, comprising about 7769 linear feet of structure.

Contract No. 514—Steel superstructure and appurtenant work for two-track elevated railway in Kensington Avenue and Frankford Avenue from north of Ontario Street to south of Unity Street, comprising about 7653 linear feet of structure.

Plans, specifications and blank forms for proposals can be obtained at the office above mentioned, a deposit of $10 (cash or certified check) being required for each set of plans pending return. Certain of the above contracts may be grouped in single bids, for which alternate proposal forms will be supplied if desired.

Bidders must be skilled and regularly engaged in the class of work for which they are competing.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds on all bids exceeding in amount five hundred dollars ($500), approved May 25, 1860, have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interest of the City of Philadelphia.

A. M. TAYLOR, Director.

Bids received unil Oct. 7, 1915.

Drainage System Extensions

Atlantic City, N. J.

Sealed proposals for the construction of extensions to the Storm Water Drainage System for the City of Atlantic City, New Jersey, will be received by the Board of Commissioners of Atlantic City, when called for, at Chambers of the Board in the City Hall, during a meeting to be held by that body on the seventh day of October, A.D. 1915, at which time and place, during the session of the said Board, the proposals will be publicly opened and read.

The work to be done embraces the building of approximately 1,322 feet of reinforced-concrete drains from three to four feet wide; 6,128 feet of brick and concrete drains from 27 inches to 48 inches in diameter; 6,808 feet of terra-cotta drains from 12 inches to 24 inches in diameter; 6,413 feet of terra-cotta inlet pipes from 10 inches to 12 inches in diameter, together with manholes, catch basins, storm-water inlets and the necessary timber and pile foundations.

Each proposal submitted must be accompanied by a Certified Check drawn upon a National or State Bank or Trust Company, and to the order of City Treasurer of Atlantic City, for the sum of Five Thousand Dollars ($5,000.00).

Specifications and blank forms of proposal can be obtained of John W. Hackney, the City Engineer, and a full set of plans can be obtained from him for the sum of Ten Dollars ($10.00), such sum to accompany the order. This sum will be returned upon surrender of the plans in good condition.

The Board of Commissioners reserves the right to reject any or all bids as provided in the "Instructions to Bidders."

J. B. THOMPSON,
Director of Streets and Public Improvements.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Bay State St. Ry. Co. has asked City Council of Georgetown, Mass., for franchise to relocate its tracks on West Main St. from entrance to York Grove to Boston & Maine R.R. crossing, Georgetown. R. S. Goff, Boston, Vice-Pres. and Gen. Mgr.

Massachusetts—Merrimac Valley Power & Buildings Co. will finance new branch road with freight yards and terminals at Amesbury, to be built by Boston & Maine R.R. A. B. Corthell, Boston, Ch. Engr., Boston & Maine R.R.

✚**Connecticut**—The Connecticut Co. awarded contract for grading for new North End trolley line in Hartford to LATHROP & SHEA, New Haven. Line will extend on Main, Grove, Broad and Washington St., Farmington and Commonwealth Ave.

New York—Brooklyn syndicate considering plans for railway from Catskill to Richfield Springs, via Middleburg.

New York—United Traction Co., Albany, N. Y., has asked City Council for franchise for single-track line on Madison Ave. from Trinity Pl. to Grand St., and on Grand St. to Hamilton St., Albany. James F. Hamilton, Gen. Mgr.

New York—Town Board of Gorham granted franchise to Sodus & Wayne Electric Co. for electric railway through Gorham to Rushville.

Maryland—Idlewylde Park Ry., Baltimore, Md., will soon begin work on one-mile line on Regester Ave. from York Rd. to Idlewylde Park. Road will connect with line of United Rys. & Electric Co. Harry E. Gilbert, 2 East Lexington St., Baltimore, Pres. Noted June 24 and Aug. 12.

West Virginia—Kanawha Valley Traction & Electric Co., Parkersburg, W. Va., will double-track line from Pottery Junction to 12th St. via 19th St. S. D. Camden, Pres. Noted Sept. 2.

West Virginia—Surveys begun for proposed electric railway from Fayette Station, Fayetteville, W. Va., to Oak Hill and Beckley, 35 miles. H. G. Scott, Gen. Mgr., Virginian Power Co., Charleston, W. Va., is interested.

West Virginia—Pond Fork Ry., incorporated at Huntington with $26,000 capital, will build line from Madison, W. Va., up Pond Fork of Coal River to headwaters of Pond Fork, about 25 miles. R. M. Baker and H. Fitzpatrick, interested.

North Carolina—Graham County Lumber Co. offered to build standard-gage railway from Topton, N. C., on the Southern Ry. to Robbinsville, N. C., about 10 miles, if Graham County will pay $50,000; total cost, about $150,000. County will vote on bonds Oct. 12.

North Carolina—Kinston, Carolina R.R. & Lumber Co. will build extension of its line to Chinquapin, eight miles, or to Maple Hill, about 20 miles. C. I. Millar, Norfolk, Va., Pres.

North Carolina—Reported that Southern Ry. will build additional yard tracks and sidings at Durham, N. C. B. Herman, Washington, D. C., Ch. Engr.

✚**South Carolina**—Contracts reported awarded by Charleston Southern R.R., as follows: GADSDEN CONTRACTING CO., Savannah, Ga., 10 miles near Savannah; L. S. WOOD, Gaffney, S. C., contract near Charleston; M. SCHLITZ, Charlotte, 12 miles south; W. Z. WILLIAMS & CO., Macon, Ga., filling in temporary trestles for two miles, south of Ashepoo River, and two miles, north of Edisto River. W. R. Bonsal, People's Office Bldg., Charleston, Pres.

✚**Louisiana**—Krause & Managan Lumber Co., Westlake, La., awarded contract to W. J. CHASTAIN, Lake Charles, for 3½ miles tram road and two miles of spur tracks on timber land at Gillis. Noted Sept. 16.

Tennessee—Nashville, Chattanooga & St. Louis Ry. will build a belt line at Shelbyville to include the Sylvan Mills, Riverside Mills and Valley Cotton Mills. H. McDonald, Nashville, Ch. Engr.

Ohio—Reported that Dover, Millersburg & Western Electric Ry. will soon begin work on line from Canal Dover to Millersburg, via Sugar Creek, about 25 miles. F. F. Phillips, Canal Dover, interested.

Ohio—Cleveland, Painesville & Eastern R.R. Co., Willoughby, Ohio, will rebuild 2½ miles of track. Has purchased from Lackawanna Steel Co., 500 tons 70-lb. rail, 300 tons for immediate delivery.

Ohio—Youngstown & Southern Ry. Co., Youngstown, Ohio, asked permission of City Council to double-track its line from South Ave. to station on Front St. A. W. Hartford, Youngstown, Gen. Mgr.

Illinois—Elgin & Belvidere Co. contemplates extending its line to Rockford. Hamilton Browne, Chicago, Pres.

Illinois—Chicago & North Western Ry. will build four-track roadbed from Chicago to Sterling, or possibly as far as Mississippi River. W. H. Finley, Chicago, Ch. Engr.

Iowa—Surveys completed by Keokuk-Jefferson City Electric Ry. Co. for its line from Keokuk to Jefferson City. Right-of-way secured as far as Shelbyville. H. W. Knight, Chicago, interested.

Kansas—Plans being prepared for railway through Hutchinson, Reno County and the Huntsville district. City of Hutchinson will vote $100,000 terminal aid bonds. O. P. Byers, Hutchinson, Pres., Anthony & Northern Ry., interested.

✚**Missouri**—Metropolitan St. Ry. Co., Kansas City, Mo., awarded contract for extensions to its lines to COLUMBIA CONSTRUCTION CO., Milwaukee, Wis. Noted Aug. 19.

Arkansas—Reported that St. Louis, Iron Mountain & Southern Ry. (Missouri Pacific System) will spend $40,000 for improvements and repairs between Bergman and Diaz, Ark. E. A. Hadley, St. Louis, Mo., Ch. Engr.

Texas—Surveys begun for interurban line from Houston to Richmond. It is also proposed to extend the line eventually to San Antonio via Gonzales. Edward Kennedy, Houston, interested.

Texas—Southwestern Power, Light & Ry. Co., organized with $12,000,000 capital, will build an interurban line from Denison, Tex., to Oklahoma, Okla., about 150 miles. Power to be furnished by hydro-electric plants built by the company in southern Oklahoma. W. R. Croslen, Denison, Tex., Pres.

Oklahoma—Ft. Smith & Western R.R. secured entrance into Oklahoma City from Ft. Smith by way of Missouri, Kansas & Texas Lines. A. L. Smith, Ft. Smith, Ark., Gen. Engr.

Oklahoma—Mt. Carmel Development Co., Chickasha, Okla., capital stock, $50,000, plans a railway in Leflore County, to coal mines. F. L. Mercer, 301 North Sixth St., Chickasha, interested.

Washington—Federal Light & Traction Co., New York, N. Y., operating urban and interurban lines in Hoquiam and Aberdeen, Wash., contemplates electric line between Willapa Harbor and Grays Harbor. Estimated cost, $1,000,000. Lee Skipwith, New York, N. Y., Pur. Agt.

California—City Trustees granted franchise to Pacific Gas & Electric Co. for extensions on T St., Upper Stockton Rd., Lower Stockton Rd., Cypress Ave., Curtis Ave., Whiskey Hill Rd., Palmetto, Fifth and East Ave., Sacramento. John W. Britton, Gen. Mgr.

California—Southern Pacific Co. applied to Railroad Commission for authority to build spur track at grade across 11th and 12th St., Sacramento, and a team track at grade across F St., Galt, Sacramento County. W. H. Hood, San Francisco, Ch. Engr.

Quebec—Reported that City Council, Quebec, Que., considering steps to compel Quebec Ry., Light & Power Co. to extend its lines in Limoilou, Beauport and Charlesbourg. H. G. Matthews, Quebec, Gen. Mgr.

Ontario—Ontario Railway Board approved plans of Toronto Ry. Co. for extension of its lines along Yonge St. from present northerly terminus to a point near Farnham Ave. R. J. Young, Toronto, Gen. Mgr.

LIGHT, HEAT AND POWER

✚**Milford, N. H.**—Milford Electric Light & Power Co. secured right-of-way for transmission line from Milford to Townsend, Mass., to connect with main line. Contract for line awarded to FREDERICK T. LEY & CO., Springfield, Mass.

Enosburg Falls, Vt.—Electric Light Commissioners will install electric-light system to replace gas lamps now in use. W. J. Redmond, Chn., Comrs.

Buffalo, N. Y.—Delaware, Lackawanna & Western R.R. will build one-story substation at 60 Ohio St., Buffalo. Cost, $8,000.

New York, N. Y.—(Borough of Queens)—Interborough Rapid Transit Co. purchased site on Jackson Ave. near Barn St., Long Island City, for new substation. Estimated cost, $40,000. George H. Pegram, 165 Broadway, New York, Ch. Engr.

New York, N. Y.—(Borough of Queens)—Plans being prepared by New York & Queens Electric & Power Co., Long Island City, for new substation in one of its districts. Work will not begin before next year. Company will also equip about two miles of subway, and requires equipment to provide for 3,000 additional street-lamps. C. G. M. Thomas, Pres.

Starkey, N. Y.—Town granted franchise to E. L. Bailey, owner of Dundee electric-light plant, to furnish electricity in Starkey, and extend service to Lakemont.

Camden, N. J.—C. B. Coles & Co. will build new power plant at its woodworking factory. Equipment will include boilers, engines, generators and auxiliaries.

Flemington, N. J.—Reported that Pennsylvania R.R. contemplates a power plant in connection with the electrification of Flemington-Lambertville line.

Lyndhurst, N. J.—New York Telephone Co. granted 50-year franchise for underground conduit system in certain streets of Lyndhurst.

Newark, N. J.—National Lock Washer Co. will build one-story steel boiler house at its plant on Johnson St.

Paterson, N. J.—Board of estimate appropriated $5,686 for electric-light and power plant in High School building. Equipment will consist of two 135-kw. units.

Perth Amboy, N. J.—The Chesebrough Mfg. Co., manufacturer of vaseline products, will build a pump house at its plant.

Girardville, Penn.—Girardville Gas Co. will soon award contracts for gas plant to be located either in Lansford or Coaldale, to supply surrounding sections. Estimated cost, $600,000.

Baconton, Ga.—Bonds for $12,000 voted for electric-light plant and water-works system.

Madisonville, Tenn.—Town granted franchise to M. C. King and associates, Copperhill, Tenn., for electric-light system in Madisonville.

Athens, Ohio—Athens Electric Co. contemplates rebuilding entire distribution system, and extending new transmission lines throughout the city. Page C. Morris, Vice-Pres. and Gen. Mgr.

Dayton, Ohio—Reported plans under way for hydro-electric plant at Woodsdale to supply electricity to large section of southern Ohio.

Green Camp, Ohio—Village will build 4-mile transmission line and install street-lighting system. H. O. Fisher, Toledo, Engr.

Monroe, Ind.—Reported that Town Board rejected all bids for 6-mile transmission line from Columbia City to Monroe. Bids to be readvertised.

Wakarusa, Ind.—Public Service Commission authorized Hawks Electric Co., Goshen, Ind., to purchase plant of Home Electric Co., Wakarusa, for $10,000. A transmission line from Goshen to Bremen will be built by Hawks Co.

Cheboygan, Mich.—Cheboygan Electric Light & Power Co. will install 250-hp. auxiliary plant adjoining gas plant for emergency use and in low-water periods. F. B. Spencer, Secy. and Mgr.

Detroit, Mich.—Reported Hudson Motor Car Co. purchased site for new power plant and engine room.

✚Iron Mountain, Mich.—Peninsular Power Co. will enlarge and improve its power plant at cost of $50,000. Contract for 2,200-kw. generator awarded to WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn.

Kalamazoo, Mich.—Citizens voted against bond issue of $350,000 for enlargement and improvement of municipal electric-light plant. Noted Sept. 2 and 9.

✚Elizabeth, Ill.—Elizabeth Light & Power Co. awarded contract for three miles transmission line, substation and distribution system to T. G. HAMILTON, Laporte, Ind., at $5,575. Noted Sept. 9.

Chariton, Iowa—Union Service Co., Chariton, granted franchises by towns of Lucas and Woodburn to supply electricity in both towns. Energy to be furnished from Chariton. Reported that company will build new plant in Chariton.

Luverne, Iowa—(Official)—Bids will be received until 6 p.m., Oct. 6, by R. E. Cook, Town Clk., for eight miles transmission line, substation and distribution system. Raasch & Brooks, Ft. Dodge, Engr

✚Sergeant Bluff, Iowa—Town Board has awarded contract for three miles 11,000-volt, single-phase transmission line from Sioux City, and for street-lighting system to A. J. WESTFALL, 608 U. S. Bldg., Sioux City, at $5,934. Noted Aug. 19.

Wall Lake, Iowa—Bonds for $7,500 voted for transmission line from Lake View and distribution system in Wall Lake. Energy will be purchased from Sac City Electric Co.

✚Hallock, Minn.—Village Board awarded contract for power plant, pole line and street-lighting system to J. G. ROBERTSON, St. Paul, at $17,750.

Hanska, Minn.—Village Board granted franchise to Madelia Electric Co., Madelia, to supply electric current to Hanska.

✚Nashwauk, Minn.—Contract awarded to HUGH FAWCETT, Duluth, at about $10,000 for power house at Crosby Mine at this point.

Attica, Kan.—Town voted $30,000 bonds for electric-light and water-works system in Attica. Noted July 29.

Havensville, Kan.—Town will vote for bond issue of $8,000 for electric-light plant in Havensville, and for building transmission line from Centralia.

Ord, Neb.—Reported bids will be received until Oct. 1 by John C. Work, Mayor, for electric-light plant. Estimated cost, $22,700.

Tower, N. D.—City Council contemplates electric-light plant.

✚Seguin, Tex.—Seguin Electric Light & Power Co. awarded contract for two waterwheels, headhouses, 187-kw. generator and switchboards to WALTER TIPS CO., Austin, at $9,797.

Grove, Okla.—City Council considering plans for improving electric-light plant and water-works system. Estimated cost, $10,000.

Soper, Okla.—Bonds for $6,000 voted for electric-light plant. Reported bids will soon be asked.

Ft. Collins, Colo.—Reported that bids being received for power house at State Agricultural College, Ft. Collins. Cost, about $20,000. Fisher & Fisher, Century Bldg., Denver, is Arch.

Republic, Wash.—F. R. Clark will build transmission line from Republic to Danville to connect with power line from Bennington Falls near Danville. Energy will be furnished to operate local mines and stamp mills.

Liverpool, N. S.—Reported bids will soon be received for improvements to municipal electric-light plant. Estimated cost, $15,000. T. R. Bartling, Town Engr.

Toronto, Ont.—Hydro-Electric Power Commission of Ontario decided to construct 60 miles transmission lines as follows: Chatham to Petrolia, thence to Oil City, 24 miles; Granton to Kirkton, thence to Exeter, 25 miles; Lucan to Ailsa Craig, 10 miles. W. W. Pope, Toronto, Secy. Com.

BRIDGES

Augusta, Maine—Bids will be received until 11 a.m., Sept. 29, by State Highway Commission for two concrete abutments at Mattawamkeag River in Haynesville, one at Fish River and two at Higgins Brook in Town of Harmony; bids received at same time for 18,600 ft. b.m. plank on steel bridge in Medway.

Nashua, N. H.—(Official)—Plans being prepared for reinforced-concrete bridge over Pennichuck Brook between Nashua and Merrimack, N. H. George P. Winn, City Engr. Noted Aug. 19.

Providence, R. I.—Bids will be received until 2:[illegible] p.m., Sept. 27, by Department of Public Works for steelwork of Randall St. Bridge. Noted Sept. 9.

Woonsocket, R. I.—Plans prepared by F. A. Mills, City Engr., were accepted for three bridges, one 170 ft. long, one 110 ft. and the third 55 ft. long, all of reinforced-concrete. Bids will soon be asked. Noted Aug. 26.

★✚Bridgeport, Conn.—Stratford Ave. Bridge Commission awarded contract for approaches and superstructure of bridge to HOLBROOK, CABOT & ROLLINS, Boston, at $3[illegible],000; bascule span, Strauss type, awarded to EMPIRE CONSTRUCTION CO., New York, N. Y., at $109,265. Noted Aug. 19.

Albany, N. Y.—(Official)—Lowest bid received by State Department of Public Works for substructure, superstructure and approaches of Gorham St. Bridge, Waterloo, was that of Scott Bros., Rome, N. Y., at $59,928. Contract not awarded. Noted Aug. 19.

✚Buffalo, N. Y.—(Official)—Common Council awarded contract for rebuilding Chicago St. Viaduct, to be completed in six months, to STROBEL STEEL CONSTRUCTION CO., Chicago, at $184,700. Noted June 24 and Sept. 16.

✚Buffalo, N. Y.—Grade Crossing Commission, 436 Ellicott Sq., awarded contract for 162-ft. bridge over tracks of the Pennsylvania R.R. on Bailey Ave. to EASTERN CONCRETE STEEL CO., D. S. Morgan Bldg., Buffalo, at $46,272. Noted Sept. 9.

Groveland, N. Y.—Town Boards of Groveland and Sparta voted to spend $4,500 for three concrete bridges between Groveland Station and Dansville-Mt. Morris State Highway.

Rochester, N. Y.—Driving Park Ave. Bridge will be paved with wood block. Herbert W. Pierce is Comr. of Pub. Wks.

Camden, N. J.—City Council and Board of Chosen Freeholders of Camden County are considering lift bridge at State St., in connection with deepening of Cooper River. Span of about 70 ft. proposed.

Freehold, N. J.—Bids will be received until 11 a.m., Oct. 6, by Board of Chosen Freeholders of Monmouth County for bridge on road from Freehold to Hightstown. George D. Cooper, County Engr.

✚Hackensack, N. J.—Contract for bridge on Hopper Ave. between Westwood and Park Ridge, awarded by Board of Chosen Freeholders to CHARLES FIGINI, Lodi, N. J., at $6,600.

Matawan, N. J.—Lowest bid received by Board of Chosen Freeholders of Monmouth County for Strauss trunnion bascule bridge over Matawan Creek on South Amboy-Keyport Rd. was that of Long-Broadhurst Co., Hackensack, at $34,320. Noted Aug. 19.

✚New Brunswick, N. J.—Board of Chosen Freeholders of Middlesex County awarded contract for reinforced-concrete bridge over Ambrose Brook, Piscataway Township, to WILSON CONCRETE CO., Plainfield.

Perth Amboy, N. J.—Bids will be received until 2:30 p.m., Sept. 27, by A. J. Gebhardt, Dir., Bd. of Chosen Freeholders of Middlesex County, New Brunswick, for reinforced-concrete slab bridge on Brace Ave., Perth Amboy. Alvin B. Fox, Perth Amboy, County Engr.

Harrisburg, Penn.—Bids will be received until 10 a.m., Sept. 30, by Robert J. Cunningham, State Highway Comr., for 50-ft. steel bridge in Butler County, and three concrete bridges in Elk County, two of 12 ft. each, and one of 24 ft.

Lewistown, Penn.—Bids will be received until Oct. 8 by Commissioners of Mifflin County for bridge over Kishacoquilla Creek on Dorcas St. extension. Dr. W. M. Baker is Comr.

★✚Media, Penn.—(Official)—Commissioners of Delaware County awarded contract for bridge on Glenolden Ave. over Muckinapatus Creek to WILLIAMS CONSTRUCTION CO., Chester, at $6,600. Noted Aug. 26.

Phoenixville, Penn.—(Official)—Bids will be received until 11 a.m., Sept. 30, by Commissioners of Montgomery County, Norristown, for concrete arch over Schuylkill River between Phoenixville and Mont Clare. John N. Jacobs, Norristown, County Controller.

Sharon, Penn.—Bids will be received until 1:30 p.m., Oct. 5, by Commissioners of Mercer County, Mercer, for either concrete or steel bridge across Shenango River at State St., Sharon. Noted July 29.

✚Wilmington, Del.—Baltimore & Ohio R.R. Co. awarded contract for substructure of bridge to carry Lancaster Ave. across its tracks to JAMES F. BROGAN CO., Philadelphia, Penn.; superstructure awarded to KING BRIDGE CO., Cleveland, Ohio. Bridge to be of steel, 60 ft. wide.

Mt. Washington, Md.—Pennsylvania R.R. will build iron girder bridge over Jones Falls, near Mt. Washington. Work will be done by company forces. A. C. Shand, Philadelphia, Penn., Ch. Engr.

✚Berkeley Springs, W. Va.—(Official)—County Court of Morgan County awarded contract for bridge across Sleepy Creek to CONCRETE STEEL BRIDGE CO., Clarksburg, W. Va., at $4,968. Noted Aug. 26.

✚Huntington, W. Va.—Commissioners of Cabell County awarded contract for bridge over Fudges Creek in Grant District to A. T. THOMPSON, at $9,101.

Keyser, W. Va.—(Official)—Bids will be received until Sept. 27 (extension of date from Sept. 14), by J. V. Bell, Clk. of Mineral County, for two reinforced-concrete bridges, 30-ft. span over Georges Run, and 50-ft. span over Beaver Run. Noted Sept. 2.

Williamson, W. Va.—City contemplates bridge across Tug River to open new road from West Virginia to Kentucky. Estimated cost, $14,450. A. C. Pinson, Mayor.

✚Springfield, Ga.—Commissioners of Effingham and Bulloch Counties awarded contract for steel bridge over Ogeechee River between the two counties to EASTERLING & EASTERLING, Daisy, Ga., at $5,790. Noted Aug. 5.

Arcadia, Fla.—(Official)—Plans will not be completed for several months for bridge over Kissimmee River near Arcadia, as it is county line structure, and arrangements must be made with adjoining county. A. L. Durrance, County Clk., De Soto County. Noted Sept. 9.

✚Titusville, Fla.—Commissioners of Brevard County awarded contract for 112-ft. concrete bridge over Crane Creek to CHAMPION BRIDGE CO., Wilmington, Ohio, at $10,500.

Meridian, Miss.—Bids will be received until Oct. 4 by Supervisors of Lauderdale County for 75-ft. steel bridge over Okatibeha Creek at Mayerhoff Switch on New Orleans & Northeastern R.R. W. R. Pistole, Chancery Clk.

Oberlin, La.—Reported that Ward Five, Allen Parish, will soon select engineer for 1,600-ft. light steel bridge across Calcasieu River, and a number of smal steel or concrete bridges. S. M. Lee, Member Parish Police Jury. Noted Aug. 26.

Cleveland, Ohio—Bids will be received until 11 a.m., Oct. 9, by E. G. Krause, Clk. of Cuyahoga County Comrs., for bridge work, Report 3,587. W. A. Stinchcomb, County Engr.

✚Marion, Ohio—Commissioners of Marion County awarded bridge contracts as follows: Clark Bridge in Montgomery Township, to CENTRAL CONCRETE & CONSTRUCTION CO., Canton, $6,500; Roberts Bridge in Claridon Township, to MODERN CONSTRUCTION CO., Fremont, $4,800; Tymochtee Bridge, to CHAMPION BRIDGE CO., Wilmington, $2,500. Noted Aug. 26.

Milford, Ohio—(Official)—Bids will be received until noon, Oct. 4, by Cleona Searles, Audr. of Clermont County, Batavia, for raising and repairing abutments, and building steel superstructure and flooring of bridge over East Fork of Little Miami River, Union and Miami Townships. Bids will be received at same time for $10,000 bonds to pay for this work. Noted Sept. 9.

Steubenville, Ohio—Bids will be received until Oct. 15 by Commissioners of Jefferson County for steel superstructure of bridge in Smithfield Township, and reinforced-concrete bridge on State Rd. in Springfield Township.

Xenia, Ohio—Bids will be received until 11 a.m., Oct. 1, by Commissioners of Greene County for new steel bridge, and for laying creosote or other block floor on two other bridges.

Anderson, Ind.—Commissioners of Madison County having plans prepared for repair and extension of Main St. Bridge. Two additional 90-ft. steel spans, reinforced-concrete piers and abutments required. Estimated cost, $9,000. W. O. McVaugh, County Surv.

Crown Point, Ind.—Bids will be received until 10 a.m., Oct. 10, by Edward Simon, Audr., Lake County, for pony truss bridge over Hart Ditch, Brown St., Munster.

Crown Point, Ind.—Bids will be received until 10 a.m., Oct. 28, by Edward Simon, Audr., Lake County, for sale of $116,000 bridge bonds, for bridges in Dyer and Hammond, Ind.

Frankfort, Ind.—(Official)—Bids will be received until 2 p.m., Oct. 4, by Commissioners of Clinton County for repairing the Rice Bridge on Frankfort and Middlefork Rd. Edward Spray, County Audr.

✚Joliet, Ill.—(Official)—Chicago, Ottawa & Peoria Ry. awarded contract for two new bridges to JOLIET BRIDGE & IRON CO., Joliet. Noted Aug. 26.

Burlington, Iowa—City of Burlington and private corporation considering bridge over Mississippi River. Plans not yet started. Estimated cost, $2900,000. H. G. Vollmer, City Engr.

Keosauqua, Iowa—Bids will be reecived until Sept. 29 by Board of Supervisors of Van Buren County for 80-ft. steel pony truss bridge, concrete floor and abutments, and 40-ft. steel pony truss bridge, concrete floor on old abutments; both to have 16-ft. roadways.

✚Austin, Minn.—Commissioners of Mower County awarded contract for six county bridges to HENNEPIN BRIDGE CO., Minneapolis, at $10,487. Noted Aug. 19.

✚Carlton, Minn.—Commissioners of Carlton County awarded contract for county bridges to HEWITT BRIDGE CO.

✚Faribault, Minn.—Contract for bridge over Crocker Creek on Seventh St., awarded to JOHN THONET.

✚Houston, Minn.—Contract for bridge over Badger Creek awarded to OLE HOGANSON, Houston.

✚International Falls, Minn.—Contracts awarded for bridge across Sturgeon River and one over Bear River to IOWA BRIDGE CO., and PLYMOUTH BRIDGE CO., Minneapolis, respectively.

Preston, Minn.—Bids will be received until 2 p.m., Sept. 27, by J. Dunford, Audr. of Fillmore County, for five county bridges.

New Ulm, Minn.—Bids will be received until 2 p.m., Sept. 28, by Commissioners of Brown County for abutment and wings to Cobden Bridge over Big Cottonwood River, about four miles south of Cobden. Louis G. Vogel, County Audr.

✚Wacouta, Minn.—(Red Wing post office)—Contract for steel bridge across Bullards' Creek, Wacouta, awarded to HEWITT BRIDGE BUILDING CO., Minneapolis.

✚Alma, Kan.—Commissioners of Wabaunee County awarded contract for three bridges to J. A. JOHNSON, Junction City, at $5,800.

Manhattan, Kan.—Bids will be received until Oct. 6 by County Clerk of Riley County for 10 reinforced-concrete bridges, and repairing or replacing several steel bridges. W. S. Gearhart, Manhattan, State Engr.

✚Mankato, Kan.—(Official)—County Commissioners awarded contracts for bridge work as follows: LEAVENWORTH BRIDGE CO., one new bridge, 11 repair jobs; WESTERN BRIDGE CO., one new bridge and 11 repair jobs; JOHN BLISS, one new bridge. Noted Aug. 26.

Bismarck, N. D.—Bids will be received until noon, Oct. 5, by F. E. Flaherty, Audr. of Burleigh County, for concrete culverts on section line south of Wing.

Manning, N. D.—Bids will be received until 2 p.m., Oct. 4, by C. H. Gutmann, Audr. of Dunn County, for steel truss bridge between Dunn and Stark Counties.

✚Dillon, Mont.—(Official)—Commissioners of Beaverhead County awarded contract for two steel bridges, one 170-ft and one 42-ft. span, to O. E. PEPPARD, Missoula, at $8,980. Noted Aug. 26.

Gallatin, Mo.—(Official)—Bids will not be asked for rebuilding Daviess County bridges destroyed by recent floods. B. H. Tarwater, County Clk. Noted Sept. 9.

Warrensburg, Mo.—David Mohler, County Engr. of Johnston County, preparing plans for steel bridge. Bids probably asked about Dec. 1. Theodore Hyatt, County Clk.

Lewisville, Ark.—Hugh R. Carter, State Highway Engr., Little Rock, prepared plans for 240-ft. steel bridge across Bodcaw Creek near Lewisville.

Marion, Ark.—Crittenden County Commissioners considering plans for viaduct from approaches of Harahan Bridge, now under construction, to levee, a distance of two miles. Proposed structure to be 16 ft. above ground and 24 ft. wide. Estimated cost, $350,000.

Cleburne, Tex.—City Council contemplates bridge over West Buffalo Creek on Poindexter Ave. It will be concrete, 120 ft. long.

Denison, Tex.—Citizens voted $50,000 bonds at recent election for viaduct over shops and yards of Missouri, Kansas & Texas Ry. Co.

Galveston, Tex.—Reported that Southern Pacific Co., Missouri, Kansas & Texas; Gulf, Colorado & Santa Fé and Galveston, Houston & Henderson Rys., will build jointly, 1,000-ft. addition to the reinforced-concrete archway of the causeway across Galveston Bay. Estimated cost, $1,500,000. A. T. Dickey, City Engr.

✚Laredo, Tex.—(Official)—City Council awarded contract for one 85-ft. and one 188-ft. reinforced-concrete bridge to RANNEY CO., San Antonio, at $15,000. Noted Sept. 9.

Minco, Okla.—Commissioners of Grady County, Chickasha, and Canadian County, El Reno, contemplate bridge across Canadian River four miles from Minco. Estimated cost, $45,000 to $50,000, to be divided between two counties. H. A. Cranwell, Chickasha, County Engr. of Grady County.

Las Vegas, N. M.—Bids will be received until 10 a.m., Sept. 30, by Fidel Ortiz, Chn., Comrs. of San Miguel County, for grading and paving bridge over Gallinas River at foot of Bridge St., Las Vegas. George E. Morrison, County Engr.

Aberdeen, Wash.—Bids were received by the City Council Sept. 8 for West Toll Bridge over Chehalis River from: J. R. Wood, 621 Valley St., Seattle, $20,729; Coast Bridge Co., Portland, Ore., $21,218. Noted Aug. 12 and 26.

Hooper, Wash.—The Oregon-Washington R.R. & Navigation Co. has plans for 210-ft., three-span steel bridge over Palouse River near Hooper. S. Murray, Portland, Ore., is Bridge Engr.

Riverside, Wash.—All bids received Sept. 8 for steel bridge over Okanogan River rejected. Reported new bids will be received about Oct. 10 by Commissioners of Okanogan County, Conconully.

Madera, Calif.—Reported that city voted $12,000 bonds for new concrete bridge across Fresno River.

Stockton, Calif.—Supervisors of San Joaquin County contemplate bridge work as follows: Trestle at Woodbridge, $5,400; Lockeford Trestle, $17,500; bridge on Jack Tone Rd., $10,000; on Eight Mile Lane, $2,000; Leonard Rd. Bridge, $4,000; repairing bridges, $1,500; painting steel bridges, $6,000; replacing miscellaneous wooden bridges and culverts, $10,000.

Windsor, Ont.—City Council approved plans for $45,000 bridge on Wyandotte St. over tracks of the Michigan Central R.R. Dominion Ry. Board will be asked to authorize the work.

✚Manitou, Man.—Contract for steel cantilever bridge over Nelson River at Manitou Rapids, awarded to J. D. McARTHUR CO., 501 McArthur Bldg., Winnipeg, at $175,000. Subcontracts awarded to CONTRACTORS, LTD., The Pas, for substructure, and to CANADIAN CO., Walkerville, Ont., for steel for superstructure.

WATER SUPPLY—IRRIGATION

✚Boston, Mass.—(Official)—Contract for laying water mains in streets in East Boston awarded HENRY SPINACH CONTRACTING CO., Boston, at $7,381. Noted Sept. 2.

Boston, Mass.—(Official)—Bids will be received by the Metropolitan Water and Sewage Board, 1 Ashburton Pl., until 1:30 p.m., Sept. 27, for surface water drains at Spot Pond, Stoneham.

Cambridge, Mass.—Plans being prepared for a municipal filtration plant. George A. Johnson, Boston, Engr.

Pittsfield, Mass.—It has been recommended to City Council to adopt order to provide $10,000 for extension of water system.

✚Westbury, N. Y.—Contract for water district in Carle Pl. awarded to WILLIAM G. FRITZ CO., at $25,554. Noted Sept. 16.

✚Bordentown, N. J.—Contract for water distributing system in Crosswicks Creek section awarded A. A. KAFER, JR.

Clinton, N. J.—Bids will be received until 1 p.m., Oct. 1, by Board of Managers, Reformatory for Women, for extension of water system.

Collingswood, N. J.—(Official)—Proposition for water system rejected by citizens. Noted Sept. 16.

East Orange, N. J.—W. G. Sharwell Co., Newark, at $109,638, submitted lowest bid for superstructure of Doremus Ave. pumping plant.

✚Woodbury, N. J.—Council awarded contract for pumping station to THOMPSON ALLEN, Woodbury.

Coatesville, Penn.—Bids will be received by Borough Council until Oct. 7 for high-pressure system. A. Potter, 50 Church St., New York, N. Y., Engr.

★**Clarksburg, W. Va.**—(Official)—Bids will be received until noon, Oct. 21, by Water-Works and Sewage Board for installing two gas engines and two pumps at pumping station. S. G. Highland, Secy.

★**Lumberton, N. C.**—(Official)—Bids will be received until Oct. 12 by E. White, Mayor, for installation of a filtration plant at municipal water system. Noted Aug. 19 and Sept. 2.

Wilson, N. C.—City engaged Anderson & Christie, Engr., Charlotte, to prepare plans for water system. Noted Sept. 16.

Columbus, S. C.—Citizens will vote Oct. 5 to issue $300,000 bonds for water system.

Spartanburg, S. C.—City plans to expend $25,000 to improve pumping station.

Pass Christian, Miss.—Election will be held to vote on issuing $40,000 to $50,000 bonds. Part of proceeds will be used for water system. Noted Sept. 2.

Lockport, La.—City contemplates water system.

Shreveport, La.—City Commission offered to buy plant of water company for $750,000. If offer is not accepted proposition for municipal water system will be submitted to voters. Bonds for $1,200,000 are available for this purpose.

Elizabethtown, Ky.—City plans to hold an election to vote on issuing bonds for filter. Estimated cost, $7,000 to $10,000.

★**East Liverpool, Ohio**—Bids will be received by E. J. Smith, Dir. Pub. Ser., until noon, Sept. 25, for 6,000,000-gal. filter plant, pumping station, pumps, boilers, force mains, stand pipe and appurtenances. Chester & Fleming, Pittsburgh, Penn., Engr.

East Youngstown, Ohio—City contemplates water system. Estimated cost, $165,000.

Glendale, Ohio—Election will be held to vote on issuing $8,500 bonds for water system.

✚**Maumee, Ohio**—Contracts for water system awarded T. C. BROOKS & SONS, Jackson, Mich., at $49,753.

Mt. Blanchard, Ohio—State Board of Health, Columbus, approved plans for a water system.

Salem, Ohio—(Official)—W. J. Sherman Co., Consult. Engr., 613 The Nasby, Toledo, retained to conduct investigations and make recommendations as to cost of development of increased water supply for city.

✚**West Park, Ohio**—(Official)—Contract for water mains awarded WILHELMI CONSTRUCTION CO., Cleveland, at $9,220. Noted Sept. 2.

Fairbury, Ill.—(Official)—Bids will be received about Oct. 1 for well at water works. T. W. Burns, Supt. Water Wks. Noted Sept. 2.

✚**Quincy, Ill.**—Board of Supervisors, Fabius River Drainage District, awarded contract for pumping station and equipment to PURDY & HENDERSON and UNITED ENGINEERING CO. Estimated cost, $60,000.

✚**Silvis, Ill.**—Contract for reservoir awarded CONRAD SCHAD.

✚**Villa Grove, Ill.**—Contract for water system awarded J. M. DONAHUE, Stevens Point, Wis., at $32,285.

Hayward, Wis.—City Council contemplates filtration plant. Estimated cost, $4,000.

✚**Jefferson, Wis.**—Contract for two steel tainter gates and three concrete piers awarded NORTHWESTERN BRIDGE & IRON CO., Milwaukee, at $4,000. Noted Aug. 19.

Madison, Wis.—City plans to improve water system.

✚**Battle Creek, Iowa**—Contract for improving water system awarded DES MOINES BRIDGE & IRON CO., Des Moines, at $5,000.

Gilmore City, Iowa—City plans to extend water main to Campbell addition.

Holstein, Iowa—Election will be held Oct. 7 to vote on issuing $18,000 bonds for water system.

Lehigh, Iowa—City contemplates new water main across river or repairing old one.

Luverne, Iowa—Bids will be received until Oct. 6 by R. E. Cook, Town Clk., for water system.

Campbell, Minn.—Bids will be received by Herman Reyelts, Village Clerk, until 8 p.m., Sept. 28, for 2,000 ft .of 6-in. and 4,500 ft. of 4-in. water main.

Carlton, Minn.—City contemplates water system. Estimated cost, $16,000.

Proctor, Minn.—Proctor Water & Light Co. granted franchise for water system.

Emporia, Kan.—City contemplates filtration plant.

Ft. Scott, Kan.—City plans to improve water system, including rapid sand filtration plant. Citizens voted $50,000 bonds for this purpose.

Bayard, Neb.—Bids will be received about Jan. 1 for water system. Estimated cost, $12,500. Finley & Selzer, Scotts Bluff, Engr.

✚**Veblen, S. D.**—Contract for water system awarded TANNER BROS., at $25,000. Noted July 29.

Fargo, N. D.—Bids will be received by A. R. Watkins, City Audr., until 10 a.m., Sept. 29, for 1,160 ft. of 6-in. water main.

Minot, N. D.—Bids will be received until Oct. 4 by City Council for two miles of water mains. Estimated cost, $19,253. E. J. Thomas, City Engr.

Chinook, Mont.—Election will be held Nov. 8 to vote on issue of $10,000 bonds for filtration plant.

✚**Eureka, Mont.**—Contract for Glen Lake Irrigation Project awarded C. H. KELLEY, Eureka, at $122,500.

Washington, Mo.—Citizens voted to issue $60,000 bonds for purchase of water system. Plan to issue $35,000 additional bonds for improving same. Noted July 29.

Beeville, Tex.—According to press reports city contemplates water system. Estimated cost between $20,000 and $30,000.

Galveston, Tex.—Plans being prepared by A. T. [illegible]key, City Engr., for reconstructing 30-in. submerged wat[illegible] main.

Galveston, Tex.—A. M. Lockhart & Co., at $15,9[illegible] submitted the lowest bid for air compressor for wate[illegible]works at Alta Loma. Noted Aug. 12.

Sterling, Colo.—Press reports state that dam at North Sterling reservoir will be improved. Estimated cost, [illegible],000.

Tulsa, Okla.—E. C. Hughes, City Engr., authorized to prepare map of ground of site for dam in Osage Hills which will probably supply city with water.

✚**Edgewater, Colo.**—Contract for water system awarded GREGG & FISHER, at $39,870. Noted July 29.

Idaho Falls, Idaho—Cost of raising dam to increase flow of water at municipal water works estimated at $12,7[illegible].

✚**Lava Hot Springs, Idaho** (Dempsey post office)—Contract for water system awarded ANTON JENSEN, Preston, at $13,925.

Everett, Wash.—Burns & McDonnell, Kansas City, Mo., retained as engineer for improving water system. Bonds for $1,700,000 voted for pipe line to carry waters of Sultan Basin to city limits and for purchase of present water system. Noted Sept. 2.

North Yakima, Wash.—Election will be held Oct. 20 to vote $80,000 bonds for West Side drain.

Seattle, Wash.—Contract for laying water mains in East 54th St. and Bradner Pl. awarded to N. FIORTA & BROS. at $1,363; 37th Ave. N. E., CITY CONTRACTING CO., at $8,912. Noted July 5 and Aug. 12.

Wenatchee, Wash.—(Official)—Citizens voted $500,000 bonds for new irrigation system and for improving old one. Noted Sept. 2.

Baker, Ore.—Citizens will vote on issuing $110,000 bonds for improving municipal water system.

Echo, Ore.—Bids will soon be received by the Teal Irrigation District for reclaiming about 20,000 acres. Estimated cost, $800,000.

Fairview, Ore.—An election will be held to vote $12,600 bonds for municipal water system.

Florence, Ore.—Bonds for $10,000 sold for water system.

Hood River, Ore.—Citizens voted $50,000 bonds for irrigation system. Noted Sept. 2.

Salem, Ore.—Sutles Lake Irrigation District plans to issue $600,000 bonds to irrigate 12,000 acres.

✚**West Lynn, Ore.**—Contract for municipal water system awarded J. W. MOFFATT, West Lynn, at $15,000.

Modesto, Calif.—Modesto Irrigation District plans to improve irrigation system. Estimated cost, $50,000.

✚**Pasadena, Calif.**—Contract for furnishing c.-i. pipe awarded to AMERICAN CAST IRON PIPE CO., at $10,000.

✚**Quebec, Que.**—(Official)—Contract for storage dam awarded GEORGE MADDEN, Quebec, at $101,027. Noted Sept. 2.

Toronto, Ont.—Bids will be received until Oct. 12 by T. L. Church, Mayor, for 35-in. stop valves, valve operating mechanism and special castings for pumping station.

SEWERS

✚**Rochester, N. H.**—(Official)—Contract 8,100 ft. of 8- to 12-in. sewer pipes awarded C. W. FOSS CO., Fitchburg, Mass., at $9,163. Noted Aug. 19 and Sept. 9.

Lakeville, Conn.—We have been advised that plans for a sewer system are being prepared by the City-Wastes Disposal Co., 156 Fifth Ave., New York, and not by Virgil Ehle, as noted in the issue of Sept. 2.

✚**Albany, N. Y.**—Board of Contract and Supply awarded contract for sewage pumping stations to FOUNDATION CO., Woolworth Bldg., New York, at $172,772. Noted Aug. 5.

New Rochelle, N. Y.—City Council plans sewer at Hudson Park. Estimated cost, $7,500.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contract awarded to MURPHY BROS., 25th St. and Cropsey Ave., for sewer basin in East 13th St. and Ave P. Noted Sept. 2 and 16.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contract awarded to B. PACONI & SON, for sewer in East Eighth St. Bids opened Sept. 15. Noted Sept. 9.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—Contract awarded to WALTON CONTRACTING CO., 147 East 125th St., at $4,949 for sewer in Ellwood St. Noted Sept. 2 and 16.

✚**New York, N. Y.**—(Borough of Queens)—(Official)—Contracts awarded to WILLIAM M. STANTON, at $78,837, for sewers in Perry Ave. and Maurice Ave., Second Ward; KINGSBRIDGE CONTRACTING CO., 130 East 42nd St., Manhattan, at $81,542, for sewers in Maspeth Ave., Rust, Creek, Clark St., Second Ward and to CLANCY & VAN ALST, 401 Broadway, Long Island City, at $73,655, for sewers in Grand St., Second Ward. Noted Aug. 26 and Sept. 9.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Sept. 30, by Maurice E. Connolly, Borough Pres., for sewer work in various streets.

New York, N. Y.—(Borough of Richmond)—(Official)—All bids received Sept. 7 for sewage-disposal plant were rejected. New bids will be received until noon, Sept. 28, by Calvin D. Van Name, Borough Pres., for sewage-disposal plant, and sewer outlet at Taylor St. Noted Sept. 2 and 16.

✚**Rochester, N. Y.**—Contract awarded to F. V. BOTSCH, Triangle Bldg., at $20,867, for sewer in Main St.

Schenectady, N. Y.—Bids will soon be received for trunk sewer from interceptor in Front St. to corner of Union Ave. and Union St. Noted Aug. 26.

★**Atlantic City, N. J.**—(Official)—Bids will be received until Oct. 7, by Board of Commissioners for storm water drainage system. J. B. Thompson, Dir. of Streets and Pub. Imp.

Glen Gardner, N. J.—Bids will be received until Oct. 4 by Board of Managers of Sanitorium for Tuberculosis Diseases for additions to sewage-disposal plant.

✚**Newark, N. J.**—(Official)—Contract awarded by Passaic Valley Sewerage Commissioners to WILLIAM G. SHARWELL & CO., Newark, at $109,638, for superstructures for Newark Bay pumping station. Noted Sept. 9.

✚**Perth Amboy, N. J.**—Contract for sewer in connection with Lehigh Valley R.R. property near State St. awarded CARL POULSON and J. W. ROHR.

Plainfield, N. J.—Bonds for $35,000 have been sold to be used for sewers.

Trenton, N. J.—Board of Commissioners contemplates sewers in Fell, Steamboat and George St. and Phillips Ave. Frank Thompson, City Clk.

Vailsburgh, N. J.—(Newark post office)—Board of Works, Newark, plans new sewerage system in Sanford Ave. and adjacent streets. Estimated cost, $30,000.

West Orange, N. J.—Estimated cost of 3-ft. storm sewer from Fairmount Ave. to brook is $12,000. Rufus Mead, Engr.

★**Philadelphia, Penn.**—(Official)—Bids will be received until noon, Sept. 29, by M. L. Cooke, Dir. of Pub. Ser., Rm. 225, City Hall, for Schedule A, branch sewers, B, main sewers and C, bridges.

Sharon, Penn.—Council plans to issue $185,000 bonds for sewage-disposal plant.

Culpeper, Va.—Bids will be received until Oct. 1 by A. W. Pullman, for sewer work.

✚**Richmond, Va.**—Administrative Board awarded contract for sewer in Scott's Addition to LEROY E. NEWTON, at $11,601. Noted Sept. 16.

Richmond, Va.—City plans an expenditure of $50,000 for sewers in East End.

Leesburg, Fla.—(Official)—Citizens defeated $35,000 bond issue for sewers. L. M. Johnson, City Clk. Noted Aug. 26.

Miami, Fla.—Bids will be received until Oct. 7 by City Council for two vertical centrifugal pumps and electric motors in sewage pumping station.

✚**Ocala, Fla.**—(Official)—Contract awarded to BRYANT & CO., Jacksonville, at $66,700, for sewer work. Noted Aug. 19.

North Chattanooga, Tenn.—(Official)—Bids will be received until 2 p.m., Sept. 27, by Board of Commissioners for sale of $50,000 sewer bonds. Cushman & Farleigh, City Engr. Noted Aug. 26.

Cincinnati, Ohio—(Official)—Bids were received for sewers in Crescent Ave., Athens St. and Missouri Ave. from: Cavanaugh & Connelly, $11,546; Wagner & Boehning, $12,728; John Ruebel Construction Co., $13,001.

Letonia, Ohio—Citizens will vote Nov. 2 to issue bonds for $28,000 for sewage-disposal plant and two trunk-line sewers.

Toledo, Ohio—Bids will be received until noon, Sept. 28, by city for local sanitary sewer No. 20 of Main Sewer District No. 6.

Princeton, Ind.—(Official)—Bids will be received until Sept. 27 for sanitary sewer system. E. M. Miller, City Clk. Noted Sept. 2.

Mason, Mich.—(Official)—Citizens defeated $34,000 bond issue for sewer work. J. E. Welsh, City Clk. Noted Aug. 26.

Elroy, Wis.—Revised plans will be prepared for sewers on West and Cedar St.

✚**Clinton, Iowa**—(Official)—Contracts awarded to THOMAS CAREY & SON, Clinton, at $124,857, for sewer in Fourth Ward. Noted Aug. 12.

Donnellson, Iowa—(Official)—Plans are wanted for septic tank for school. B. F. Warren, Secy. School Bd.

✚**Maquoketa, Iowa**—Contract for sewers awarded W. B. YEAGER, at $4,294.

✚**Austin, Minn.**—Contract for sewers on Euclid Ave. and Third St. awarded CATHERO & CO.

Cokato, Minn.—Bids will be received until 8 p.m. Oct. 5, by M. E. Berg, Village Recdr., for sewer system.

Herman, Minn.—(Official)—Bids will be received until Oct. 8 by Village Council for sewer. Estimated cost, $4,573. J. E. Cole, City Engr. Noted Sept. 9.

Minneapolis, Minn.—Sewer Committee recommended sewer south of 45th St. and west of Nicollet Ave.

St. Paul, Minn.—(Official)—Bids will be received by Aug. ust Hohenstein, Pur. Agt., Court House, until 10:30 a.m., Sept. 27, for Hazel Park Sanitary Sewer System.

South St. Paul, Minn.—Property owners plan to revive project for extension of sewer system.

Lincoln, Neb.—(Official)—Sewer work planned by city will be done by city forces. A Dobson, City Engr. Noted Aug. 26.

Wausa, Neb.—Citizens voted to issue $12,000 bonds for sewer system and sewage-disposal plant.

Alton, Mo.—Plans being prepared for east and west end trunk sewers.

✚**St. Louis, Mo.**—(Official)—Contracts awarded to ALFRED LEWALD, at $5,431, for sewer in Harlem Creek Sewer District No. 12, at $7,879 in District No. 13, at $5,920 for sewer in Penrose Joint District and to GEORGE G. PRENDERGAST CONSTRUCTION CO., at $37,377, for sewers in Baden Sewer District No. 2. Noted Sept. 2.

Santa Ana, Tex.—City has retained Bradshaw & Enbank, Brownwood, to prepare plans for sewer system. Noted July 29.

Edgewater, Colo.—Bids will be received until Oct. 10 by C. W. Gist, Town Clk., for sewer system. Estimated cost, $32,000.

✚**Pullman, Wash.**—Contract awarded to JAMES C. BROAD, Jamieson Bldg., Spokane, at $12,000, for sewer in Improvement District 34. Noted Aug. 26.

Spokane, Wash.—(Official)—City contemplates making extensions to sewer system by day labor. J. T. McDevitt, Ch. Clk. Noted Sept. 9.

Auburn, Calif.—Bond election for $22,000 for sewers postponed till end of year. M. A. Waleau, City Clk. Noted July 1 and Aug. 26.

✚**Berkeley, Calif.**—Contract awarded to CHAMBERS & HEAFEY, Oakland, at $20,000 by City Council for sewer system.

GARBAGE

✚**Gloucester City, N. J.**—Contract for cleaning city streets, garbage collection and sprinkling for one year awarded as follows: District No. 1, THOMAS O'BRIEN, $223 per month; District No. 2, CHARLES H. EASTLAKE, $180 per month.

Nutley, N. J.—Board of Health plans to install garbage incinerator.

New Orleans, La.—City Engineer will prepare plans for garbage incinerator. Estimated cost, $30,000.

Bellaire, Ohio—City contemplates building garbage-disposal plant. C. Wassman, Mayor.

Sioux City, Iowa—Citizens plan to install incinerator.

★**Houston, Tex.**—(Official)—Bids will be received until 2 p.m., Oct. 8, by city for reinstallation of garbage incinerators, destructors. B. Campbell, Mayor and E. E. Sands, City Engr.

STREETS AND ROADS

✚**Madison, N. H.**—State Highway Commission, Concord, awarded contract for improving road at Madison to J. W. TYLER, Silver Lake.

Boston, Mass.—Bids will be received until noon, Sept. 28, by State Highway Commission, 15 Ashburton Pl., for about 14,300 lin.ft. of highway in town of Norwell.

✚**Boston, Mass.**—Contract for paving Montebello Rd., West Roxbury, awarded to M. De MATTEO, 146 Dudley St., Roslindale, at $8,395. Noted Sept. 16.

✚**Boston, Mass.**—Contract awarded to CHARLES J. JACOBS CO., 107 Terrace St., Roxbury, at about $16,418, by Commissioner of Public Works for paving work on West Roxbury and Glendower Rd. Noted Aug. 5.

✚**Boston, Mass.**—Contracts awarded to JAMES DOHERTY, 133 Calumet St., Roxbury, at $4,487, for artificial stone sidewalks on Gladstone and Bayswater St. and to A. STEPHANO, 284 Summer St., for artificial stone sidewalks.

Shelburne Falls, Mass.—Bids will be received until 1 p.m., Sept. 28, by W. G. Rickett, Shelburne Falls, for rebuilding road in town of Shelburne.

✚**Dunkirk, N. Y.**—Contract for paving awarded to JAMES McNAMARA, at $6,500. Noted Sept. 2.

✚**Glens Falls, N. Y.**—Contract awarded to J. & M. DOYLE, at $16,231, for improving Wayne and 19th St.

✚**Lockport, N. Y.**—City awarded contract for brick paving to C. B. WHITMORE, at $4,800.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Sept. 29, by L. H. Pounds, Pres., Borough of Brooklyn, for repaving Broadway and Surf Ave. and for furnishing 1,000 cu.yd. of binder stone and 800 tons of limestone.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Sept. 15 for improving Ashland Pl. as follows: Franklin Contracting Co., 52 Vanderbilt Ave., New York, $17,428; Glenmore Ave., Brooklyn Alcatraz Paving Co., 407 Hamilton Ave., Brooklyn, $16,462; Hopkinson Ave., Brooklyn Alcatraz Paving Co., $3,941; Grafton St., Brooklyn Alcatraz Paving Co., $5,475; 64th St., Topeka Paving Co., West 14th St. near Neptune Ave., Brooklyn, $3,873 and 74th St., Topeka Paving Co., $4,613. Noted Sept. 9.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received Sept. 15 for paving work on 62nd St.: Aztec Asphalt Co., 90 West St., $15,846; Sicilian Asphalt Co., $18,244 and Barber Asphalt Co., $18,694, and for paving work on 66th St.: Sicilian Asphalt Co., 41 Park Row, $7,171; Aztec Asphalt Co., $7,233 and Asphalt Construction Co., $7,330, and for paving work on Haven Ave.: Asphalt Construction Co., 208 Broadway, $4,673; Sicilian Asphalt Co., $4,993 and Barber Asphalt Co., $5,107. Noted Sept. 9.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Sept. 30, by Maurice E. Connolly, Borough Pres., for improving Fairview Ave., Parsons Ave., Gerold St., Boulevard, Fifth Ward.

✚**New York, N. Y.**—(Borough of Richmond)—(Official)—Contract for repaving Richmond Terrace awarded to J. E. DONOVAN, 2205 Richmond Terrace, at $21,779. Noted Aug. 12 and Sept. 16.

Rensselaer, N. Y.—City will spend $30,000 for paving work.

Arcola, N. J.—(Warrenpoint post office)—(Official)—Bids will be received until 4 p.m., Sept. 25, by Townshhip Committee of Midland Township, for concrete sidewalks and curbs on Rochelle Ave. Arthur Lozier, Township Clk.

✚★**Elizabeth, N. J.**—Contracts awarded for paving as follows: UNION PAVING CO., Philadelphia, Penn., Anna St. and Murray St., at $8,361 and $15,610, respectively; JOHN E. DONOVAN, Broad St. at $29,775; STANDARD BITULITHIC CO., Newark, four streets, $13,003; UVALDE ASPHALT PAVING CO., Jersey City, Irvington Ave. and Prince St., at $6,862 and West Grand St., $12,825. Noted Aug. 12.

✚**Elizabeth, N. J.**—Contracts awarded to WELDON CONTRACTING CO., at $26,315, for widening St. George's Ave. and to C. H. WINANS CO., at $12,102, for road work on Morris Turnpike.

Hackensack, N. J.—(Official)—Bids will be received until Oct. 1, by Board of Chosen Freeholders of Bergen County for improving road from Godwin, Midland Park to New York State line.

✚Hawthorne, N. J.—Contract awarded to WALTER WILLIAMS, for concrete sidewalks on Cedar, Royal and Forest Ave.

Irvington, N. J.—Bids will be received by Board of Freeholders, Newark, N. J., until 3 p.m., Oct. 11, for paving Lyon Ave. Frederic A. Reimer, County Engr.

Jersey City, N. J.—Bids will be received until Oct. 7 by Board of Freeholders for paving work on Passaic Ave., Kearney and Paterson Plank Rd., about 9,366 ft. and 7,705 ft. respectively.

✚Jersey City, N. J.—Contract awarded to VAN KEUREN CO., Jersey City, at 88.9% of standard for repaving Storms Ave. Noted Aug. 19.

Jersey City, N. J.—Bids will be received until Oct. 7 by Board of Chosen Freeholders of Hudson County for improving Passaic Ave. and Paterson Plank Rd. Noted July 29.

Jersey City, N. J.—All bids received for repairing portions of Arlington, Bayview and Garfield Ave. were rejected by City Commissioners. New bids will be received. Noted Aug. 26.

Midland Park, N. J.—Bids will be received until Oct. 1 by Board of Chosen Freeholders of Bergen County, Court House, Hackensack, for improving Prospect St., Crescent Ave. and Mowerson Rd.

Newark, N. J.—Bids will be received until Sept. 30 by Board of Works for bitulithic pavement on North Sixth St. Board of Works has also authorized improvement of Washington St.

✚Newark, N. J.—Contract awarded by Board of Works to GLENFIELD CONSTRUCTION CO., at $7,023, for improving North 12th St. with asphalt pavement.

West Hoboken, N. J.—Bids will be received until 8 p.m., Oct. 6, by Town Council for improving Palisade and Paterson Ave. and for walls and stairways in old Hillside Rd.

West Paterson, N. J.—Bids will be received until Sept. 27 by Street Commission of Council for macadamizing portions of Garbaldi and Grover Ave. E. A. Mulroony, Clk.

✚Bethlehem, Penn.—Borough Council awarded contract for about three miles amiesite paving to R. S. RATHBUN, Allentown. Noted Aug. 28 and Sept. 2.

✚Bloomsburg, Penn.—Contract awarded to B. E. BLOOM, Luzerne, at $0.97 per sq.yd. for 11,600 sq.yd. of brick pavement on Market St. Noted Aug. 26.

✚Greensburg, Penn.—(Official)—Contracts awarded to JOHN MITCHELL, Tranger, and BELL-BOCKEL CO., Altoona, at $25,000 and $33,000 respectively, for highway in Mt. Pleasant Township. Noted Aug. 19.

✚Harrisburg, Penn.—(Official)—Contract awarded to WILLIAM C. EVANS, Ambler, at $86,079, for amiesite road from Huntington to Mill Creek in Huntington County and $34,123 for road work on State Highway Route 131 in Chester County. Noted Sept. 2.

★✚Marcus Hook, Penn.—Borough Council awarded contract for 7,000 sq.yd. paving and 800 sq.yd. gutter to EASTERN PAVING CO., Philadelphia, at $11,016. Noted Aug. 26.

✚Philadelphia, Penn.—Contract awarded to EDWIN H. VARE, Philadelphia, at $42,836, for improving Passyunk Ave.

Plains, Penn.—(Official)—Bids will be received until 7:30 p.m., Oct. 4, by Board of Commissioners of Plains Township for improving various streets. William Rowlands, Secy., Bd. of Comrs.

✚Baltimore, Md.—Contract awarded to P. FLANAGAN & SONS, Baltimore, at $1.32 per sq.yd., for paving Rosedale Ave. and Arunah Ave.

Baltimore, Md.—Bids will be received until noon, Sept. 28, by State Road Commission, Garrett Bldg., for road work under Contract No. CL 13, Carroll County.

✚Hamilton, Md.—Commissioners of Baltimore County, Towson, awarded contract for widening and paving Hamilton Ave. to THOMAS R. GATCH & SONS, Raspeburg, Md., at $5,500.

Bland, Va.—Bids will be received until noon, Sept. 27, by R. C. Repass, Clk., Bd. of Supervisors, for 2.46 miles of county road.

Berkeley Springs, W. Va.—Bonds for $15,000 have been voted by citizens for street paving. J. A. Risinger, Mayor.

✚★Charleston, W. Va.—Contracts awarded by City Council for paving work as follows: R. M. HUDSON & CO., West Second St., at $1.65 per sq.yd.; GLOVER & KIMBERLIN, Charleston, Crescent Rd. and Bridge St., $1.80; Sixth St., Columbia Blvd., Caroline, Maryland, Pennsylvania Ave., at $1.62 and $1.69 for asphaltic concrete and asphalt respectively; CAREY, REED & CO., Lexington, Ky., Roane St., at $1.74. Noted Sept. 2.

Clarksburg, W. Va.—(Official)—Bids will be received until 7:30 p.m., Sept. 24, by Albert J. Bishop, City Clk., for paving North Fourth St. with vitrified brick or wooden block.

Logan, W. Va.—Citizens of Logan County defeated bond issue for $200,000 road bonds. Noted July 29.

Martinsburg, W. Va.—Bonds for $15,000 voted by citizens for paving Main St. J. A. Rosinger, Mayor.

✚Wellsburg, W. Va.—Contract awarded to A. O. HALDERMAN, Wheeling, for 9,500 sq.yd. of brick pavement on Follansbee Rd. Noted Sept. 2.

✚Wheeling, W. Va.—Contract awarded to BALL ENGINEERING CO., by Ohio County Commissioners for resurfacing with asphalt National Pike from Stockyard to Rudlers and from Leatherwood to Pleasant Valley.

Greensboro, N. C.—Two miles of macadam road will be built by Guilford County Commissioner from Greensboro to High Point. Estimated cost, $25,000.

Greensboro, N. C.—West Lee and Tate St. will be paved with concrete. Edward M. Myers, City Engr.

Reidsville, N. C.—Main St. will be paved and sidewalks laid.

Rutherford, N. C.—Section of Main St. will be paved at estimated cost of $8,900.

Shelby, N. C.—Election will be held Oct. 16 to vote $30,000 bonds for road work in Cleveland County, No. 3 Township.

Wilson, N. C.—Anderson & Offutt, Charlotte, retained to prepare plans for street improvements. Bonds for $80,000 voted. T. A. Hinnant, Town Clk.

Sumter, S. C.—Bonds for $225,000 voted by citizens for street improvements. D. M. Blanding, Clk. Noted Aug. 26.

Bartow, Fla.—Citizens of Polk County will vote on $1,000,000 bonds for highway work.

Jacksonville, Fla.—Duval County Council of Dixie Highway Association, formed to lay out route of Dixie Highway from Macon, Ga. to Jacksonville. John H. Williams, Chn.

Mayo, Fla.—Citizens will vote on $300,000 bonds for road work in Lafayette Couny.

Palatka, Fla.—Putnam County voted $208,000 bonds for brick roads and concrete bridges. Noted Aug. 26.

Perry, Fla.—Citizens of Taylor County will vote on $500,000 bonds for highway construction.

Sanford, Fla.—Bonds for $450,000 voted by citizens Sept 7 for highways. Noted Aug. 26.

✚Tallahassee, Fla.—Contract awarded to SOUTHERN PAVING CONSTRUCTION CO., Chattanooga, Tenn., at $67,463, for paving various streets with brick. Noted Aug. 26.

West Palm Beach, Fla.—Bonds for $800,000 sold by Palm Beach County for road work.

Marion, Ala.—Bids will be received until Oct. 1 by County Commissioners for 7,800 cu.yd. of clay-gravel for surfacing part of Marion and Uniontown Rd.

Columbus, Miss.—(Official)—Bids will be received until Sept. 28 by Highway Commission of Supervisors District for 36,690 sq.yd. bituminous wearing surface. G. E. Hauser, Jr., Columbus, Engr.

Columbus, Miss.—(Official)—Bids will be received until Oct. 4 by Board of Supervisors of Lowndes County for $90,000 highway bonds.

Columbus, Miss.—(Official)—Contracts will be awarded about Oct. 11 for 48 miles highway improvement. G. E. Hauser, Jr., Engr.

Columbus, Miss.—Bonds for $100,000 voted for road from Columbus, Miss., to Vernon, Ala. W. E. Cox, Superv. Noted Sept. 2.

Derma, Miss.—Bids will be received until Oct. 5 for constructing 1,800 sq.yd. of concrete sidewalks. N. M. Crawford, St. Comr.

West Point, Miss.—Bonds for $20,000 issued by Clay County Supervisors to construct roads.

Donaldsonville, La.—Election will be held Oct. 19 to vote $15,000 bonds and $50,000 bonds for road work in Road Districts No. 2 and 1 respectively.

✚Gueydan, La.—Contract awarded to C. L. BAKER, at $7,000, for sidewalks.

✚Lake Charles, La.—Contracts awarded by Police Jury to TEXAS GRADING CO., at $16,882, for gravel road near Vinton and to W. M. McCORQUODALE, Lake Charles, at $14,200, for gravel road near Sulphur. Noted Sept. 2.

✚New Orleans, La.—Contract awarded to S. A. CANO, Jackson, Miss., at $37,735, by State Highway Department for 26 miles of gravel road in Road District No. 1, West Baton Rouge Parish. Noted July 29.

✚New Orleans, La.—Contract awarded by Highway Department of Board of State Engineers to W. E. GREEN, Lafayette, at $14,900, for eight miles of road work in Red River Parish. Noted Aug. 19.

Oberlin, La.—Bonds for $150,000 voted by citizens for gravel roads in Ward Five, Allen Parish. S. M. Lee, Member Police Jury. Noted Aug. 26.

Ponchatoula, La.—Tangipahoa Parish Police Jury will improve Ponchatoula-Madisonville Rd. at estimated cost of $12,000.

✚Chattanooga, Tenn.—Contract for paving McCallie Ave. awarded to NOLL CONSTRUCTION CO. at $9,321, and for paving Main St. from Market to Whiteside St. to WEST CONSTRUCTION CO., at $10,418.

Jacksboro, Tenn.—Bids will be received until Oct. 2 by Board of Highway Commissioners for improving roads No. 2, 7 and 8. H. G. Murray, Chn.

Knoxville, Tenn.—Bonds for $200,000 for road work voted by citizens of Grainger County.

Livingston, Tenn.—Citizens of Overton County contemplate holding election Oct. 23 to vote on $160,000 bonds for road work. Noted Aug. 19.

Loudon, Tenn.—Bonds for $12,000 voted by County Court for completion of Dixie Highway to Loudon County line.

✚Memphis, Tenn.—Contract awarded to KOEHLER BROS.-FOWLER CONSTRUCTION CO., at $22,204, for improvements to Main St. Noted Aug. 12 and Sept. 16.

Rutledge, Tenn.—Bonds for $200,000 voted by citizens of Grainger County for road work. Noted Sept. 2.

Tazewell, Tenn.—Bids will be received until Oct. 8 for grading and macadamizing 103 miles of road in Claiborne County. J. H. S. Morison, Cumberland Gap, Comr.

Albany, Ky.—Bids will be received about Oct. 15 for Dixie Short Route from Tampa, Fla., via Chattanooga, Tenn., to Cincinnati, Ohio. C. B. Parrigin, County Judge. Noted Sept. 9.

✚Brownsville, Ky.—Contract awarded to A. A. SMITH, Mt. Pleasant, Tenn., at $14,000, by Edmonson County Fiscal Court for 3½ miles of turnpike from Brownsville to Rhoda.

Columbia, Ky.—Citizens of Adair County voted $120,000 bonds for road construction. Noted Aug. 26.

+Elizabethtown, Ky.—Contract awarded to S. P. JOHNSON by Hardin County Fiscal Court for four miles of Dixie Highway from Elizabethtown to Hart County Line.

+Hopkinsville, Ky.—Contract awarded by Christian County Fiscal Court to D. C. McQUARRY, at $24,6[illegible] for six miles of road.

Louisville, Ky.—Chestnut St. from 24th to 26th St. will be paved by city forces. David R. Lyman, City Engr.

Princeton, Ky.—Bids will be received until Sept. 27 by County Commissioners of Caldwell County for two miles of macadam State-Aid highway.

+Cincinnati, Ohio—Contract awarded to HENKLE & SULLIVAN, at $8,102, by Board of Control for improving Gest St. Noted Sept. 2.

Cleveland, Ohio—County Commissioners contemplate widening Lake Shore Blvd. W. A. Stinchcomb, County Engr.

+Cleveland, Ohio—Commissioners of Cuyahoga County awarded contract for 5½ miles of road between Bedford and Twinsburg to PACE BROS., Cleveland, at $94,000.

+Columbus, Ohio—Director of Service awarded contract for paving Heyl Ave. to A. W. BURNS & CO., Columbus, at $4,200; contract for improving Nelson Rd. awarded to A. G. PUGH, Columbus, at $15,000. Noted Sept. 2.

Columbus, Ohio—Bids will be received until Oct. 8 by Board of County Commissioners of Franklin County for improving Frantz Rd. with macadam, McCoy Rd. in Perry Township and Ryan Ave., Franklin Township, Mason Rd. in Marion Township and Cambridge Rd. in Perry Township and Cambridge Rd. in Perry Township. John Scott, Clk., Bd. of County Comrs.

+Columbus, Ohio—Contracts awarded by State Highway Commissioner for road work as follows: J. A. WESTRICK, Holgate, $25,900; GARVER & WIRTZ, Hamilton, $1,299; KORAH E. KINKLE, Dayton, $7,943; EDWARDS BROS., Sundbury; YUNDT & JACKSON CO., Dayton, $24,900; YUNDT & JACKSON CO., Dayton, $1,200 and $33,640; McARTHUR & FOX, Bellencenter, $9,100; MODERN CONSTRUCTION CO., Fremont, $16,700; MODERN CONSTRUCTION CO., Fremont, $15,700; J. P. WARNICK, Cadiz, $32,776 and EDWARD BEAN, Highland, $4,900. Noted Aug. 26.

+East Liverpool, Ohio—Contract awarded to PATTERSON & GRAFTON, East Liverpool, for paving 17th St. from Clark to Buckeye Ave.

+Galion, Ohio—Contract awarded to BROOKS CONSTRUCTION CO., Ft. Wayne, Ind., at $40,095 for paving Church St. with brick.

Gates Mills, Ohio—(Official)—Bonds for $22,000 sold for improving Mayfield and Som Center Rd. in Mayfield Township. F. J. William, Township Clk. Noted Aug. 19.

+Lorain, Ohio—Contract awarded to OHIO ENGINEERING CO., Lorain, at $37,191, for brick pavement on East 28th St. Noted Aug. 26.

Napoleon, Ohio—Bonds for $45,800 sold for road work in Union County.

+Oakharbor, Ohio — (Official) — County Commissioners awarded contract for 2,500 sq.yd. brick or asphalt paving to MODERN CONSTRUCTION CO., Fremont, at $5,606. Noted Sept. 2.

+Painesville, Ohio—Contract awarded to GOULD & MAYBACH, for paving East South and Walnut Ave.

Ravenna, Ohio—(Official)—Bids will be received until noon, Oct. 2, by John S. Mallette, Dir. of Pub. Ser., for improving Pratt St. from Main St. to Riddle Ave.

+Wooster, Ohio—(Official)—Contract awarded to GRIEST & MARKLEY, Wooster, at $6,175, for paving North Buckeye St. with brick. Noted Sept. 2.

Angola, Ind.—(Official)—Bids will be received until 1 p.m., Oct. 5, by Commissioners of Steuben County for two gravel roads. F. C. Dewey, Audr.

+Columbus, Ind.—(Official)—Contract awarded to MERIDITH & HAILWAY, Columbus, at $6,124, by Commissioners of Bartholomew and Shelby Counties for road on county line. W. H. Scott, Audr. Noted Aug. 19.

Crawfordsville, Ind.—(Official)—Bids will be received until 10 a.m., Oct. 5, by Commissioners of Montgomery County for road in Ripley Township. B. B. Engle, Audr.

+English, Ind.—Contract awarded to J. M. FROMAN, Grandsburg, at $7,925, for stone road in Jennings Township.

Franklin, Ind.—(Official)—Bids will be received until 2:30 p.m., Oct. 4, by Commissioners of Johnson County for gravel road in Pleasant Township. H. L. Knox, Audr.

Franklin, Ind.—(Official)—Bids will be received until 2:30 p.m., Oct. 20, by Commissioners of Johnson County for gravel road on Johnson-Marion County line. H. L. Knox, Audr.

Greensburg, Ind.—(Official)—Bids will be received until 1 p.m., Oct. 4, by Commissioners of Decatur County for road in Saltcreek and Washington Townships. L. W. Sands, Audr.

+Indianapolis, Ind.—Contract awarded to KOKOMO ASPHALT PAVING CO., Kokomo, at $14,826, for paving 18th St. with bituminous concrete.

Lebanon, Ind.—(Official)—Bids will be received until 2 p.m., Oct. 4, by Commissioners of Boone County for gravel roads in Perry and Washington Townships. D. M. Clark, Audr.

Monticello, Ind.—(Official)—Bids will be received until 10 a.m., Oct. 5, by Commissioners of White County for gravel road in Liberty Township. A. G. Fisher, Audr.

+Mt. Vernon, Ind.—Contract awarded to LAWRENCE J. UTLEY, Mt. Vernon, at $9,164, for two gravel roads in Black Township. Noted Sept. 2.

Muncie, Ind.—Bids will be received until 1 p.m., Sept. 28, by Board of Public Works for concrete sidewalks on 13th, Liberty and Hackley St. John R. Kelly, City Clk.

Plymouth, Ind.—(Official)—Bids will be received until 1:30 p.m., Oct. 1, by Commissioners of Marshall County for gravel roads in German and Center Townships. George F. McCoy, Audr.

+Rensselaer, Ind.—Contract awarded to THOMAS M. COLLOHAN, Rensselaer, at $13,499, for road in Gillam Township.

Rockport, Ind.—(Official)—Bids will be received until 1 p.m., Oct. [illegible], by Commissioners of Spencer County for road in Ohio Township. J. T. Stevenson, Audr.

+Shelbyville, Ind.—Contracts awarded to D. H. FATOUT, Indianapolis, at $5,510 for road in Shelby Township and to KERNODLE, DALE & FULWIDER, at $5,984 and $5,974 for two roads in Liberty Township by Commissioners of Shelby County.

Shoals, Ind.—(Official)—Bids will be received until 1 p.m., Oct. 4, by Commissioners of Martin County, for macadam road in Perry Township. L. D. Haga, Audr.

+Sullivan, Ind.—Contract awarded to R. R. SINGE, Sandborn, at $10,279, by Commissioners of Sullivan County for gravel road in Hamilton Township.

Tell City, Ind.—(Official)—Bids will be received until 7:30 p.m., Sept. 28, by Common Council for combined concrete curb and gutter on Tenth St. Louis Siebert, Jr., City Clk.

Washington, Ind.—(Official)—Bids will be received until 2 p.m., Oct. 5, by Commissioners of Davies County for pike road in Washington Township. L. S. Core, Audr.

Winamac, Ind.—(Official)—Bids will be received until noon, Oct. 5, by Commissioners of Pulaski County for road in Teppecanoe Township. W. E. Munchenburg, Audr.

Blissfield, Mich.—(Official)—Bids will be received until Sept. 25, by Ralph E. Pletcher, Town Clk., for macadam roads in Blissfield Township.

+Freedom, Mich.—Contract awarded by Council to McGUIRE & CO. for grading and paving Sixth Ave.

Pontiac, Mich.—County contemplates concrete road five miles long between Pontiac and Detroit.

+Belleville, Ill.—Contract awarded to REEB BROS., at $18,230, by Board of Local Improvements for paving Busch Ave.

+Belleville, Ill.—Contract awarded to HOEFFKEN BROS., at $17,399, for paving Olive St.

+Evanston, Ill.—Board of Local Improvements awarded contract for bituminous macadam on Lyons St. to M. FOLEY CO., at $4,933.

Paris, Ill.—Bids will be received until 2 p.m., Sept. 24, by Commissioners of Highways of Hunter Township for 3,960 ft. of gravel road on Baldwinsville state line road and 5,280 ft. of gravel road on Heelan Rd. Karl J. Barr, County Supt. of Highways.

Paris, Ill.—Bids will be received until 10 a.m., Sept. 25, by E. C. Barkley, Comr. of Highways, Symmes Township, for 1,800 ft. of gravel road on Chicago Rd., 3,000 ft. of gravel road on Asher Rd. and 3,950 ft. of gravel road on Preston Rd.

+Rock Island, Ill.—Contract awarded to TRI CITY CONSTRUCTION CO., Davenport, Iowa, at $18,977, for paving 24th St. with brick and 16th Ave.

+Springfield, Ill.—(Official)—State Highway Commission awarded contract for brick road near Dwight, Livingston County, to ALLAN J. PARRISH, Paris, at $17,974. Noted Aug. 19.

+Columbus, Wis.—(Official)—Contract awarded to BUTLER CONSTRUCTION CO., Waukesha, at $6,826, for improving Madison Rd. Noted Sept. 2.

Fond Du Lac, Wis.—Mt. Calvary Rd. will be improved by County Highway Commission.

+Milwaukee, Wis.—Contract awarded to CULLIGAN & ROCK, for sidewalks on Greenfield Ave. for Allis-Chalmers Co.

+Reedsburg, Wis.—(Official)—Contract has been awarded to SWEENEY BROS., Reedsburg, at $1.29 per sq.yd., for paving North Albert Ave. Noted Aug. 26.

+Des Moines, Iowa—Contract awarded to FRED H. BALTZER & STEPHEN JONES, Des Moines, at $15,000, by State Executive Council for road work in capitol extension. Noted Sept. 2.

Des Moines, Iowa—The graveling of 190 miles of highways in Polk County is advocated by Harry Barquist, Chn. of Polk County Bd. of Supervisors. Estimated cost, $190,000.

+Dubuque, Iowa—City awarded contract for 5,000 sq.yd. brick paving and 11,000 sq.yd. asphaltic concrete paving to JAMES LEE, 18th and Pine St., Dubuque.

+Jefferson, Iowa—Contracts for paving, curb and gutter awarded to FORD PAVING CO., Cedar Rapids.

Buffalo, Minn.—Bids will be received until 8 p.m., Oct. 4, by E. O. McGaffey, Village Clk., for grading Lake Shore Rd. F. W. Van Krevelin, Engr.

+Ely, Minn.—Contract awarded to VICTOR NELSON, Superior, Wis., at $8,780, for concrete sidewalks.

Faribault, Minn.—Bids will be received until 7:30 p.m., Sept. 30, by E. F. Kelley, City Recdr., for filling approach to Second Ave. Bridge.

St. Paul, Minn.—(Official)—Bids will be received until 10:30 a.m., Sept. 27, by August Hohenstein, Pur. Agt., for material for paving Warsaw St.

Walker, Minn.—Bids will be received until 2 p.m., Sept. 25, by C. B. Bacon, County Audr., for State Rural Highway No. 80 in Cass County. A. W. Moulster, Pine River, Engr.-in-charge.

Walker, Minn.—Bids will be received until 2 p.m., Sept. 25, by C. B. Bacon, County Audr., for State Rural Highway No. 82, in Cass and Hubbard Counties. George A. Ralph, Fulton Blk., St. Paul, Engr-in-charge.

Atchinson, Kan.—Construction of 8,000 sq.yd. of brick pavement planned by Council.

Larned, Kan.—City Council plans 25 blocks of pavement.

+Fremont, Neb.—Contract awarded to A. D. SEARS, Fremont, at $1.34 per sq.yd. for paving Fourth St. with granite concrete.

Great Falls, Mont.—Survey made for eight miles of road between Neihart and other side of Kings Hill Path by Cascade and Meagher Counties and Forestry Service.

✚Kansas City, Mo.—Board of Public Works awarded contracts for street work as follows: Asphaltic concrete, 2,393 sq.yd. to F. P. McCORMICK, Kansas City, $4,283; 4,833 sq.yd. of sheet asphalt to CLEVELAND TRINIDAD PAVING CO., Kansas City, at $9,569. Noted Sept. 2.

Lebanon, Mo.—Laclede County and City of Lebanon will spend $30,000 for gravel and rock roads. Isaiah Brown, Box 34, in charge.

St. Louis, Mo.—Bids will be received until 10 a.m., Sept. 28, by Board of Public Service, for paving with brick under 17 contracts. Charles E. Swingley, Secy.

Eureka Springs, Ark.—Construction of highway 24 miles long from Eureka Springs to Seligman is under consideration. John A. Bridgeford, Chn., Comm.

Amarillo, Tex.—Bonds for $50,000 voted by citizens for street paving. Noted Aug. 5.

✚Canton, Tex.—Contracts awarded for road work in Van Zandt County as follows: SMITH & LA ROE, Palestine; for main highway; MEEKS & DAVIDSON, Grand Saline, roads in various precincts.

Corsicana, Tex.—Election will be held Oct. 10 to vote on $80,000 bonds for street improvements.

El Paso, Tex.—St. Vrain St. will be paved from San Antonio to Fourth St.

El Paso, Tex.—Election will be held Oct. 12 to vote on $300,000 bonds for road work in El Paso County.

✚El Paso, Tex.—Contract awarded to TEXAS BITULITHIC CO., Dallas, at about $45,000, for paving streets in new district.

Orange, Tex.—Election will be held Oct. 16 in Orange County, Fourth Precinct, to vote on $7,000 bonds for shell or gravel road on lower Beaumont Rd.

Paris, Tex.—Grand Ave. will be paved and 15th St. from Bonham to Kaufman St.

Seabrook, Tex.—(Official)—Bids will be received until 10 a.m., Sept. 27, by County Auditor, for repairing roads in Harris County.

Depew, Okla.—Election will be held Oct. 2 to vote $18,000 bonds for road work.

Mannsville, Okla.—Citizens voted $17,000 bonds for road work.

Newby, Okla.—Election will be held to vote $20,000 bonds for roads.

Tishomingo, Okla.—Citizens contemplate election to vote $35,000 bonds for road work.

Tulsa, Okla.—Citizens of Tulsa County will vote on $20,000 bonds for road work.

✚Golden, Colo.—Contract for improving Guy Hill Rd. awarded to I. N. JACOBSON and TORE SEVERSON, Boulder, at $5,461.

Santa Fé, N. M.—Bonds for $500,000 sold for road work in various counties.

Burley, Idaho—Bids will be received until Sept. 27 for sale of $50,000 bonds for 54 miles of Idaho-Pacific State Highway in Burley Highway District. Albert Ploeger, Pres., Burley Highway Dist.

Lewiston, Idaho—Plans approved by City Council for paving and sidewalks in Special Improvement District No. 1. Estimated cost, $30,000.

Montpelier, Idaho—City Council will lay sidewalks at estimated cost of $13,821.

St. Maries, Idaho—Contract awarded to TWO MIRACLES CONCRETE CORPORATION, Great Falls, Mont., at $23,411, for improving a number of streets.

✚Cathlamet, Wash.—(Official)—Contract awarded to O. P. DOSLAND, Grays River, at $8,497, for portions of State Road No. 19. B. Heron, Audr. Noted Aug. 26.

✚Cheney, Wash.—Contract awarded to MITCHELL BROS. & PAYNE, Spokane, at $37,000 for nine miles of concrete sidewalks for paving First St.

Olympia, Wash.—Bids will be received until Oct. 11 by State Highway Commission for 24 miles of state highway. Estimated cost, $38,000. William R. Roy, State Highway Comr.

✚Pullman, Wash.—Contract awarded to MITCHELL BROS. & PAYNE, Spokane, at $15,265, for concrete sidewalks.

✚Seattle, Wash.—Contract awarded to INDEPENDENT ASPHALT PAVING CO., Northern Bank Bldg., at $234,000, for paving and bridging Admiral Way.

Stevenson, Wash.—All bids received Sept. 2 for Section 2 of Stevenson Carson Rd. rejected. Charles H. Nello, County Audr.

✚Tacoma, Wash.—Contract awarded to WASHINGTON PAVING CO., Savage-Scofield Bldg., Tacoma, at $32,243, by Board of County Commissioners for paving on Summer-Buckley Highway, Permanent Highway No. 7. Noted Sept. 2.

✚Corona, Calif.—City Trustees awarded contract for street improvements to S. C. CONTRACTING CO., at $18,004.

Lindsay, Calif.—City Trustees have authorized paving of Hermosa and Mt. Vernon Ave.

✚Los Angeles, Calif.—Board of Public Works awarded contract for paving Pacific Ave. to FAIRCHILD-GILMORE-WILTON CO., at $92,096. Noted Aug. 12.

✚Manhattan, Calif.—Contract awarded to CROWN CONSTRUCTION CO., at $13,794, for improving 18th and 19th St.

✚Manhattan, Calif.—Contract awarded to CROWN CONSTRUCTION CO., at $7,312, for improving 20th St.

Ontario, Calif.—Bids will be received until Sept. 27 by Board of City Trustees for improving Euclid Ave.

Sacramento, Calif.—Board of Supervisors of Sacramento County has ordered plans for three miles of concrete highway from Franklin to a point near Hood.

✚San Francisco, Calif.—Board of Public Works awarded contract for improving Kansas St. from 19th to 20th St. to SUNSET CONCTRUCTION CO., at $10,144.

✚Stockton, Calif.—City Trustees awarded contract for street improvements to RANSOME-CRUMMEY CO., at $26,025.

Stockton, Calif.—Board of Supervisors contemplates 10 roads at estimated cost of $135,123.

Ventura, Calif.—County Surveyor Petit appointed chief engineer in charge of improved highways for work under bond issue of $1,000,000. Noted Sept. 9.

Peterboro, Ont.—City Council contemplates asphaltic pavement on Half and Hunter St., and concrete sidewalks on several streets. S. R. Armstrong, Clk.

Saanichton, B. C.—City Council will pave Douglas and George St. Estimated cost, $24,500. H. S. Cooper, City Hall, Royal Oak, B. C., Clk.

INDUSTRIAL WORKS

Portland, Maine—Twitchell-Champlin Co. will rebuild its packing plant. Estimated cost, $86,000.

Boston, Mass.—Racich Asbestos Mfg. Co., 141 Summer St., East Boston, will build public garage on Summer St. Frank T. Eskriggo, 17 Milk St., Arch. Estimated cost, $20,000.

✚Cambridge, Mass.—Boston Woven Hose & Rubber Co. awarded contract to STONE & WEBSTER, 147 Milk St., Boston, for four-story and basement, 60x193- and 60x156-ft., concrete factory.

✚Chicopee, Mass.—Contract awarded by Bosch Magneto Co., Center St., to CASPER RANGER CONSTRUCTION CO., Holyoke, at about $100,000 for one-story, 170x300-ft. brick factory.

✚Greendale, Mass.—(Worcester post office)—Contract awarded to E. J. CROSS CO., Foster St., Greendale, at $18,000, by Norton Co., for two-story brick and steel kiln.

Lowell, Mass.—Bay State Cotton Corporation plans two-story and basement addition to its mill. Estimated cost, $100,000.

✚Lowell, Mass.—Contract awarded to NEW ENGLAND CONCRETE CONSTRUCTION CO., 201 Devonshire Co., Boston, for storage warehouse for Appleton Co. on Jackson and Rever St. Estimated cost, $125,000.

Salem, Mass.—Plans prepared by Kilham, Hopkins & Smith, 9 Park St., for brick and concrete factory on Congress St. for Naumkeag Steam Cotton Co. Estimated cost, $53,000.

✚Waltham, Mass.—Contract awarded to APTED & McDUFFEE, 235 Pleasant St., Malden, for brick and steel one-story laundry for Waltham Central Hospital.

✚Wamesit, Mass.—Contract awarded by Avery Chemical Co., Boston, Mass., to CASPER RANGER CONSTRUCTION CO., 101 Park Ave., New York, N. Y., for chemical plant.

Williamstown, Mass.—John S. Boyd Co. plans addition to bleaching plant.

✚Bridgeport, Conn.—Contract awarded to HENRY E. GREEN, for three-story, 60x200-ft., brick addition for the Royal Equipment Co. Noted Sept. 9.

Bridgeport, Conn.—Ashcroft Mfg. Co. will build five-story addition on Nichols St.

Bridgeport, Conn.—Remington Arms-Union Metallic Cartridge Co. will build one-story concrete factory on Arctic St. Estimated cost, $21,000.

✚Higganum, Conn.—Cutaway Harrow Co. awarded contract to H. WALES LINES CO., Meriden, for addition to its factory.

✚Waterbury, Conn.—Contract awarded to TRACY BROS. CO., by Noera Mfg. Co. for one-story, 56x58-ft., brick addition.

✚Amsterdam, N. Y.—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, by Shuttleworth Bros. Co. for two buildings. One will be six stories, 62x243 ft., other, six stories, 54x170 ft. Noted Aug. 26.

✚Binghamton, N. Y.—Contract awarded to B. KEEIN & CO., at about $15,000 for four-story, 40x100-ft. addition to factory of Crandall Stove Co.

Buffalo, N. Y.—Frank J. Offerman will build four-story factory at 299 Broadway. Estimated cost, $50,000.

Buffalo, N. Y.—Archer-Daniels Linsee Co. will build reinforced-concrete, 75x80-ft., grain elevator, on the upper Buffalo River.

Farmingdale, N. Y.—A. J. Mundorf Co., 254 Fourth Ave., New York, plans 100x125-ft. silk mill.

Gloversville, N. Y.—Contract awarded to WILLIAM STEELE & CO., 1600 Arch St., Philadelphia, by G. Levor & Co., for three-story, 70x80-ft. addition to its tannery.

New York, N. Y.—(Borough of the Bronx)—Harlem Transfer Co., Park Ave. and 135th St., will build 10-story concrete warehouse on Mott Haven Canal.

New York, N. Y.—(Borough of Brooklyn)—American Tobacco Co., 111 Fifth Ave., New York, plans six-story brick building, 200x232 ft., at Park and Nostrand Ave. Estimated cost, $750,000.

New York, N. Y.—(Borough of Brooklyn)—P. & L. Contracting Co. has plans for four-story and basement, 94x140-ft. factory at Atlantic and Cleveland St. Estimated cost, $75,000. M. J. Harrison, Arch.

New York, N. Y.—(Borough of Queens)—American Hard Rubber Co. will build one-story, 41x158-ft. addition to its rubber plant on Third Ave. at Fifth St., College Point. Estimated cost, $15,000.

New York, N. Y.—(Borough of Queens)—De Lisi Bertilino Co., 420 East 64th St., New York, will build a macaroni factory on Ely Ave., Long Island City.

Niagara Falls, N. Y.—Defiance Paper Co. has plans for two-story, 60x80-ft., pulp mill on Walnut St. Estimated cost, $12,000.

✚**Peekskill, N. Y.**—Contract awarded to CATSKILL SUPPLY CO., Catskill, at $20,000, for 46x235-ft. storage building for State Armory Commission, Albany.

Rhinebeck, N. Y.—Bids being received by H. T. Lundberg, Arch., 2 West 42d St., New York, for dairy buildings for Vincent Astor. Estimated cost, $100,000.

Rochester, N. Y.—William H. Burt Iron & Steel Co. has secured a site at Scherer and Pomeroy St. and will build a one-story, 100x200-ft. factory.

Rushville, N. Y.—Calder & Son has secured a site and will build brick canning factory.

✚**Syracuse, N. Y.**—Fleischmann Co. awarded contract to HENRY FUNDA for distributing plant on East Genesee St. Noted Aug. 5.

Camden, N. J.—Armstrong Cork Co. will build two-story, 94x226-ft. factory.

Elizabeth, N. J.—Metal Plating Co., 200 Fifth Ave., New York, N. Y., plans factory on North Ave.

Hackensack, N. J.—(Official)—The American British Mfg. Co., Bridgeport, Conn., denies the rumor that it contemplates the construction of a plant here. Noted Aug. 19 and Sept. 2.

✚**Jersey City, N. J.**—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., by Great Atlantic & Pacific Tea Co., for four-story bakery at Warren, First and Bay St.

Newark, N. J.—Maas & Waldstein, Ave. R and Central R.R., will build three buildings to its plant at estimated cost of $30,000.

Vineland, N. J.—William T. Taubel Hosiery Co. will build addition. Estimated cost, $26,000.

✚**Ardmore, Penn.**—Contract awarded to WILLIAM R. DOUGHERTY, at about $75,000, for five-story factory for Autocar Co. Stearns & Castor, Arch.

Bangor, Penn.—Flory Milling Co. plans addition to flour mill. Estimated cost, $20,000.

Chester, Penn.—Keystone Steel Casting Co. will build addition to its steel plant.

✚**Erie, Penn.**—Contract awarded to HENRY SCHENK CO., at about $90,000, by Erie Silk Mills for one-story, 144x144-ft. steel addition to its mill on West 26th St.

Freemansburg, Penn.—Peuckert & Wunder, 310 Chestnut St., Philadelphia, prepared plans for one- and two-story, 242x75-ft. and 100x75-ft. brick and steel factory for William Shimer & Sons Co.

✚**Norristown, Penn.**—Contract awarded to JACOB MYERS SONS & CO., for four-story, 55x120-ft., laundry for O. P. Duckworth.

Philadelphia, Penn.—American Ice Co. preparing plans for enlarging its manufacturing plant at Belfield Ave. and Reading R.R., Germantown.

Philadelphia, Penn.—Plans prepared for mill on Front and Blair St. for Byrne & Hance.

✚**Philadelphia, Penn.**—Contract awarded to H. C. REA CO., at about $110,000 for six-story factory at 11th and Race St. for Manufacturers Realty Co.

Pittsburgh, Penn.—George Hogg Co. will build oxygen plant at Grant St. and Katz Ave., Verona section. International Oxygen Co., 115 Broadway, New York, N. Y., is interested.

Pottstown, Penn.—Bids will soon be received for two-story, 60x100-ft., brick and concrete ice-cream factory for William S. Markley. Lachman & Murphy, Witherspoon Bldg., Philadelphia, Arch.

Punxsutawney, Penn.—Jefferson Macaroni Co. is having plans prepared for addition to its factory.

South Bethlehem, Penn.—Bethlehem Steel Co. will add three stories to its No. 2 machine shop.

Woodlawn, Penn.—Jones & Laughlin plans pipe mill for manufacture of steel pipe.

Baltimore, Md.—Baltimore Tube Co. has plans for one-story, 77x141-ft., brick addition to its plant on Winomico St. Estimated cost, $100,000.

Baltimore, Md.—Standard Guano Co. will enlarge its factory at estimated cost of $100,000.

Cumberland, Md.—American McKenna Process Co. purchased site along B. & O. tracks on Maryland Ave. and will build factory for manufacture of steel rails. Estimated cost, $150,000.

✚**Norfolk, Va.**—Contract awarded to BAKER & BRINKLEY, at $15,050, by Norfolk Warehouse Corporation for one-story brick warehouse.

Norfolk, Va.—A. B. Rosenkrans plans one-story brick warehouse on Scott St. to be occupied by Gyro Metal Works Co. Estimated cost, $15,000.

Berkeley Springs, W. Va.—Berkeley Springs Sanatorium Co. will build factory for manufacture of hospital supplies.

Wheeling, W. Va.—Wheeling Mold & Foundry Co. plans addition to its foundry.

Wheeling, W. Va.—Wheeling Corrugating Co., Arthington St. and Campbell Ave., will build four-story concrete addition to its factory. Estimated cost, $200,000.

Charlotte, N. C.—Virginia Carolina Chemical Co. plans warehouses.

Charlotte, N. C.—A. A. Shuford Mill Co. has plans for 50x100- and 50x200-ft. brick addition.

Hickory, N. C.—Highland Cordage Co. plans two-story, 75x100-ft. brick cordage factory at estimated cost of $125,000. Charles H. Geitner, Pres.

✚**Winston-Salem, N. C.**—Contract awarded to FISKE-CARTER CO., Greenville, S. C., at about $70,000, by R. J. Reynolds Tobacco Co. for two-story, 176x264-ft. concrete storage plant.

Hogansville, Ga.—International Cotton Mills Co. will double the capacity of its mill. Estimated cost, $300,000.

✚**Savannah, Ga.**—Contract awarded to O. OTTO, Germania Bank Bldg., Savannah, at about $35,000, by National Biscuit Co., for one- and two-story warehouse.

✚**Jacksonville, Fla.**—Contract awarded to HILLYER & SPERRING, at about $31,000, for cotton warehouse for Port Commission.

Mobile, Ala.—Terminal Transfer & Storage Co., according to press reports, will build terminal plant on 32-acre site on water front for cold storage

New Orleans, La.—Plans being prepared for syrup-canning factory for Langhoff Bros. Co. Estimated cost, $100,000. Charles Langhoff, Mgr.

Louisville, Ky.—W. L. Martin Broom & Mop Co., 1010 South Preston St., plans broom factory. Estimated cost, $18,000.

Canton, Ohio—Bonnot Co. will build one-story, 40x160-ft., brick and steel addition to its shop on Mulberry Rd. Estimated cost, $20,000.

Cincinnati, Ohio—Homan Mfg. Co. will build addition to its factory for manufacture of candle-molding machinery.

Cincinnati, Ohio—Citizens' Artificial Ice Co. has plans for 100x100-ft. brick and steel ice factory on Jefferson St. Estimated cost, $45,000. Joseph Reickert, Pres.

Cleveland, Ohio—Weideman Co., West Ninth St. and Mandrake Ave., has taken over business of Miller-Everhard Co. and will build seven-story and basement, 88x90-ft., building for bakers' supplies. Estimated cost, $100,000.

Cleveland, Ohio—Ernest McGeorge, Leader-News Bldg., preparing plans for addition to factory of Oster Mfg. Co., East 61st St. Estimated cost, $40,000.

Cleveland, Ohio—American Express Co. will build one-story, 120x150-ft. garage at Lakeside and 17th St. A. E. Skeel, 20 Second Ave. Bldg., Cleveland, Arch. Estimated cost, $30,000.

Cleveland, Ohio—Bamberger-Teinthal Co., 2621 East Ninth St., will build knitting mill at East 27th St. and Payne Ave. Estimated cost, $100,000.

Columbus, Ohio—J. N. Bradford, Arch. of Ohio State University, has prepared plans for machine shop for Ohio State University. Building will be two stories and basement. Estimated cost, $135,000.

Elyria, Ohio—Elyria Tire & Rubber Co., E. G. Parshall, 845 Bloomfield Ave., Akron, in charge, will build two-story, 60x200-ft., factory.

Elyria, Ohio—Willys-Overland Co. will build factory. Estimated cost, $30,000.

Mogadore, Ohio—Bids being received by Granite Clay Co., W. N. Palmer, Secy., 315 Hamilton Bldg., Akron, for two-story and basement, 125x310-ft. sewer-pipe factory.

Springfield, Ohio—Robert C. Gotwalk, 54 Gotwalk Bldg., receiving bids on one-story, 42x210-ft. foundry addition for Nolte Brass Co., 27 West Jefferson St. Estimated cost, $25,000.

Toledo, Ohio—Gartland Foundry Co. will build one-story brick addition to its foundry at 1811 Starr Ave. Estimated cost, $30,000.

Wooster, Ohio—Wayne China Co. plans 80x400-ft. pottery.

Columbus, Ind.—Plans prepared for four-story, 48x240-ft. addition to the tannery of W. W. Mooney & Sons.

Marion, Ind.—U. S. Specialty Co. plans three-story, 60x157-ft. brick addition to its factory on Factory Ave.

Kalamazoo, Mich.—Fuller & Sons Mfg. Co. plans four-story, 61x100-ft. brick addition to its factory.

Chicago, Ill.—Siegel-Hechinger Packing Co., 910 West 38th St., will build two-story, 56x66-ft. brick packing plant on 38th St. H. P. Henschien, Old Colony Bldg., Arch. Estimated cost, $25,000.

Chicago, Ill.—Pulverized Manure Co., Union Stock Yards, will build one-story, 85x130-ft., brick warehouse at West Morgan and 25th St. Estimated cost, $15,000.

Chicago, Ill.—Wheelock & Shank, 64 West Randolph St., prepared plans for six-story, 125x125-ft., brick and concrete publishing plant for Methodist Book Co. at Superior and Rush St. E. R. Graham, 1018 South Wabash Ave., in charge.

✚**Chicago, Ill.**—(Official)—Contract awarded to MEILING & CO., 139 North Clark St., Chicago, for six-story warehouse for Wheeling Corrugating Co. Noted Aug. 19.

Chicago, Ill.—Weller Mfg. Co. will build two-story warehouse on North Kestner Ave. R. A. Kirkpatrick, Arch. Estimated cost, $20,000.

✚**Peoria, Ill.**—Contract awarded to V. JOBST & SONS CO. by Oakford & Fahnestock Co. for first section of warehouse on Commercial St.

✚**Milwaukee, Wis.**—Contract awarded to BARNETT-RECORD CO., Minneapolis, Minn., at $525,000 for grain elevator on Kinnickimnic River for North Western R.R. Co.

Keokuk, Iowa—G. E. Weissenburger, John Dillon and others, Yonkers, N. Y., are interested in establishment of plant for manufacture of raw steel. Estimated cost, $90,000.

Waterloo, Iowa—Kelly Mfg. Co., Miles and McKinley St., will rebuild its factory, recently destroyed by fire. Estimated cost, $101,000.

✚**Waterloo, Iowa**—Contract awarded to T. S. LEAKE & CO., Chicago, Ill., at $180,000 by Illinois Central R.R. Co. for improvements to its shops.

Minneapolis, Minn.—J. F. McCrea will build two-story, brick and concrete warehouse at 17 Western Ave. Estimated cost, $15,000.

✚**Minneapolis, Minn.**—Contract awarded to BARNET-RECORD CO., Minneapolis, for grain elevator at Second and Fourth Ave. for Pillsbury Flour Mill Co.

Atchison, Kan.—Press reports state Standard Oil Co. plans to build warehouse. Estimated cost, $50,000. J. W. Powers, St. Joseph, Mo., District Mgr.

Billings, Mont.—J. I. Case Threshing Machine Co. will spend $100,000 for construction of two-story addition. O. J. Thomas, Mgr.

Missoula, Mont.—Olson & Johnson Co. contemplates building warehouse. Estimated cost, $20,000.

Hannibal, Mo.—Plans being prepared for plant for Hannibal Wire Fabric Co. Estimated cost, $30,000.

Kansas City, Mo.—White & Dean, 311 Bellefontaine Ave. preparing plans for two-story, 65x100-ft. reinforced-concrete garage on East 17th St. Estimated cost, $20,000.

✚Kansas City, Mo.—(Official)—Contract awarded to C. C. PETERSON & SON, Midland Bldg., Kansas City, at $12,000 for two-story warehouse for Freeman & Duncan Realty & Transfer Co. Noted Aug. 21.

St. Louis, Mo.—Ford Motor Car Co. will build assembling plant at Sarah St. and Forest Park Blvd. Estimated cost, $250,000.

Argenta, Ark.—Bids will soon be received for factory for Arkansas Fertilizer Co. for manufacture of sulphuric acid. Estimated cost, $100,000.

Pine Bluff, Ark.—Texas Co. will build oil distributing plant. Estimated cost, $15,000.

✚Dallas, Tex.—Contract awarded to W. C. HEDRICK CO., at about $40,000 by D. E. Johnson for four-story, brick and concrete storage warehouse.

El Paso, Tex.—James L. Marr is having plans prepared for warehouse. Estimated cost, $65,000.

Galveston, Tex.—Plans being prepared for rebuilding packing plant of Armour Packing Co., recently destroyed by fire. Building will be two stories, reinforced concrete. Estimated cost, $60,000. E. T. Slaton, Mgr.

✚Henrietta, Tex.—Contract awarded to AUSTIN BROS., Dallas, at about $30,000, for factory and warehouse for Henrietta Window Glass Co.

✚Houston, Tex.—Contract awarded to J. STRADLER, at $20,000 for two-story warehouse at Vine and Shea St. for J. F. Garret.

San Antonio, Tex.—Luck Tire & Mfg. Co., according to press reports, will build factory for manufacture of puncture proof tires. Estimated cost, $12,000.

✚Allen, Okla.—Contract awarded to A. F. VANDERSELL, Oklahoma City, at $10,000 for oil refinery for Allen Commercial Club.

Jennings, Okla.—Plans being prepared for oil refinery for Mid-Continent Refinery Co. with capacity of 2,500 bbl. Estimated cost, $100,000. J. J. Fitzpatrick, Pres.

✚Salt Lake City, Utah—Contract awarded to BUELL CONSTRUCTION CO., Chicago, Ill., at about $75,000, for three-story, 137x166-ft. concrete warehouse on Second South St. for Jennings & Hanna Investment Co. Noted Aug. 12.

Seattle, Wash.—(Official)—Bids will be received about Oct. 1 by Bebb & Gould, Arch., for eight-story, 72x242-ft. building for Times Publishing Co. Noted Aug. 5.

Eugene, Ore.—Allen & Lewis Co., Portland, will build two-story warehouse at Fifth and Pearl St. Estimated cost, $25,000.

Portland, Ore.—Oregon Packing Co. purchased 7½ acre site in Kenton factory district and will build fruit and vegetable packing plant. Estimated cost, $125,000.

Oakland, Calif.—California Steel Co. plans steel plant on Harrison St., near First St. E. H. Frisell, Pres.

Pomona, Calif.—Indian Hill Citrus Association will build pre-cooling plant. Estimated cost, $50,000.

Victorville, Calif.—Southwestern Portland Cement Co., El Paso, Tex., will build new plant for manufacture of cement. Estimated cost, $500,000.

Halifax, N. S.—Imperial Oil Co. plans asphalt plant and fuel oil refinery. Estimated cost, $400,000.

Amherstburg, Ont.—Falls Barron Co. has plans for cold-storage plant. Cost, $10,000.

London, Ont.—Wortman & Ward Co. has plans for addition to its pump factory. Estimated cost, $20,000.

FEDERAL GOVERNMENT WORK

Alterations—Boston, Mass.—Bids received Sept. 14 by Acting Supervising Architect, Washington, D. C., for new partitions, alterations, etc., in the U. S. Customhouse, Boston, Mass., from: George A. Fuller Co., Boston, Mass., $11,136; Neptune B. Smyth, Inc., New York, N. Y., $9,889; Conners Bros. Co., New York, N. Y., $10,600. Noted Sept. 2.

Elevator Plant—Boston, Mass.—Bids will be received until 3 p.m., Oct. 8, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for electric elevator plant in U. S. appraisers' stores, Boston, Mass.

✚Post Office—North Attleboro, Mass.—Contract for U. S. post office at North Attleboro, Mass., awarded to JAMES A. MUNROE, North Attleboro, at $50,500. Noted July 8 and Aug. 19.

Telephones, Etc.—New London, Conn.—Bids will be received until 11 a.m., Oct. 2, by H. R. Stanford, Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C., for four telephones, electric fixtures and wiring at Naval Station, New London.

★Air Compressors—Buffalo, N. Y.—Bids will be received until 2 p.m., Oct. 4, by Lighthouse Inspector, Buffalo, N. Y., for four air-compressor units for fog-signals at Cleveland and Ashtabula, Ohio.

Post Office—Gouverneur, N. Y.—Bids received Sept. 10 by Acting Supervising Architect, Washington, D. C., for post office at Gouveneur, N. Y., (a) limestone, (b) sandstone, from: W. H. Fissell & Co., New York, (a) $54,300, (b) $56,300; James Devault, Canton, Ohio, (a) $52,000, (b) $53,750; William H. Egan, New York, (a) $52,888; (b) $53,900. Noted Aug. 5.

Heating—New York, N. Y.—Bids received Sept. 10 by James A. Wetmore, Act. Superv. Arch., Washington, D. C., for heating alterations in New York post office, from: William J. Delaney, New York, $8,900; Walker & Chambers, New York, $8,560; Almirall & Co., New York, $8,345.

Boathouse—Oswego, N. Y.—Bids will be received until 2 p.m., Oct. 4, by United States Coast Guard, Treasury Dept., Washington, D. C., for boathouse and accessories at Oswego Coast Guard Station, Oswego, N. Y. D. P. Foley, Asst. Capt. Commandant, Coast Guard.

★Stone Repairs—Cold Spring, N. J.—Lowest bid received for stone repairs to jetty at Cold Spring Inlet was that of Coast & Lakes Repairing Co., New York, N. Y., at $29,529. Noted Aug. 5.

Post Office—Monongahela, Penn.—Bids will be received until 3 p.m., Oct. 27, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for U. S. post office at Monongahela, Penn.

✚Air Compressors—Pittsburgh, Penn.—Contract for air compressors, gas engine, turbine, electric-light plant, etc., at Lock No. 6, Monongahela River, awarded to HALL STEAM PUMP CO., Pittsburgh, at $4,444. Noted July 29 and Sept. 9.

✚Houses—Pittsburgh, Penn.—Contract for building two brick houses for lockkeepers at Dam No. 10, Ohio River, awarded to E. M. EVERSON, Brilliant, Ohio, at $11,100. Noted July 29 and Sept. 9.

★✚Lock Gates, Etc.—Pittsburgh, Penn.—Contracts for steel lock gates, valves, and lock-operating machinery at Lock No. 6, Monongahela River, awarded to THOMAS CARLIN SONS CO., Pittsburgh, at $7,600 for Section A, and to UNION FOUNDRY & MACHINE CO., Pittsburgh, at $13,557 for Section B. Noted July 29 and Sept. 9.

Dredging—Baltimore, Md.—Bids were received Sept. 14 by U. S. Engineer, Baltimore, for dredging in rivers and harbors on east shore of Chesapeake Bay from: Maryland Dredging and Contracting Co., Baltimore, 26.5c. per cu.yd. (recommended for acceptance); Dorey & Miller Co., Washington, D. C., 27.75c.; River and Harbor Improvement Co., Philadelphia, Penn., 27c.; Norfolk Dredging Co., Norfolk, Va., 29c. Noted Aug. 19.

✚Derrick Boat—Washington, D. C.—Contract for steel derrick boat awarded to DRAVO CONTRACTING CO., Pittsburgh, Penn., at $24,300. Noted July 29 and Sept. 2.

Grading—Washington, D. C.—Bids will be received until 2 p.m., Oct. 4, by Secretary of District Commissioners, Room 509 District Bldg., for approximately 19,500 cu.yd. grading on several streets.

Pumping Unit—Washington, D. C.—Bids will be received until 2 p.m., Oct. 11, by Commissioners of the District of Columbia for one steam turbine-driven, centrifugal pumping unit. Capacity, 5,000,000 gal. in 24 hr.

✚Post Office—Charlotte, N. C.—James A. Wetmore, Act. Superv. Arch., awarded contract for post office at Charlotte, sandstone construction, to J. A. JONES & CO., Charlotte, at $207,000. List of bids noted Sept. 16.

✚Bulkhead and Dock—Charleston, S. C.—Lighthouse Inspector awarded contract for bulkhead and dock for Sixth District lighthouse depot to CHARLESTON ENGINEERING & CONTRACTING CO., Charleston, at $8,745 and $46,418 respectively. Noted Aug. 5.

Cell Fronts, Locking Devices—Atlanta, Ga.—Bids received Sept. 10 by Superintendent of Prisons, Dept. of Justice, Washington, D. C., for steel cell fronts, and mechanical locking device at U. S. Penitentiary, Atlanta, Ga., (a) and (b), from: Mesker Bros. Iron Co., St. Louis, Mo., (a) $17,125, (b) $15,875; Van Dorn Iron Works, Cleveland, Ohio, (a) $25,815, (b) $22,120; A. F. Wagner, Architectural Iron Works, Milwaukee, Wis., (a) $22,415, (b) $21,375.

★✚Post Office—Palatka, Fla.—Contract for post office at Palatka, Fla., awarded to WESTCHESTER ENGINEERING CO., White Plains, N. Y., at $39,562. Noted July 22 and Sept. 9.

Attendants' Quarters—Tampa, Fla.—Bids were received Sept. 20 by Acting Supervising Architect, Washington, D. C., for construction of attendants' quarters, disinfecting shed, oil house and wharf at Tampa Bay from: A. Bassford, Tampa, $53,740; E. Hart, Norfolk, Va., $52,110; Algernon Blair, Montgomery, Ala., $54,000. Noted Aug. 26.

Levee Work—New Orleans, La.—Bids will be received until 11 a.m., Sept. 28, at U. S. Engineer Office, Queen and Crescent Bldg., New Orleans, for about 1,093,400 cu.yd. earthwork in Lower Tensas and Atchafalaya levee districts.

★Post Office—Newcastle, Ind.—Bids will be received until 3 p.m., Oct. 27, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for U. S. post office at Newcastle, Ind.

Post Office—Seymour, Ind.—Bids will be received until 3 p.m., Oct. 30, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for U. S. post office at Seymour.

Structural Steel—Leavenworth, Kan.—Bids received Sept. 10 by Superintendent of Prisons, Dept. of Justice, Washington, D. C., for structural steel, reinforcing material, etc., for cell blocks in Leavenworth Prison, from: Mesker Bros. Iron Co., St. Louis, Mo., $43,575; Crown Iron Works, Minneapolis, Minn., $48,668; St. Paul Foundry Co., St. Paul, Minn., $55,880.

Canal—Powell, Wyo.—Bids will be received until 2 p.m., Oct. 20, by United States Reclamation Service, Powell, Wyo., for canal and structures on the Shoshone Project, Wyoming. Work includes 560,000 cu.yd. excavation, 1,400 cu.yd. reinforced concrete, 9,000 sq.yd. grouted paving and placing in structures about 130 M. ft., b.m., of lumber. A. P. Davis, Ch. Engr., Reclamation Ser.

Building—Kirksville, Mo.—Bids will be received until Oct. 28 by Supervising Architect, Treasury Dept., Washington, D. C., for U. S. public building at Kirksville, Mo.

Remodeling Post Office—Moberly, Mo.—Bids will be received until 3 p.m., Oct. 15, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for extension and remodeling of U. S. post office at Moberly.

★✚**Post Office**—Grand Junction, Colo.—Contract for post office at Grand Junction, Colo., awarded to DIETER & WENZEL CONSTRUCTION CO., Wichita, Kan., at $106,821. Noted July 22 and Sept. 2.

Buildings—Bremerton, Wash.—Bids received Sept. 11 by Bureau of Yards and Docks, Washington, D. C., for one steel shell house, and two brick magazines at Puget Sound Navy Yard, from: Booker, Kiehl & Whipple, Seattle, $33,857; Arvid Levergreen, Seattle, $36,440; Martin & Dugan, Seattle, $34,913. Noted Aug. 12.

Naval Improvements—Pearl Harbor, Hawaii—Bids were received Sept. 18 by Bureau of Yards and Docks, Washington, D. C., for improvements at Naval Station, Pearl Harbor, consisting of wharf, torpedo-boat piers and marine railway. Bids were asked as follows: (a) Wharf complete, (b) piers Nos. 1, 2, 3 and 4; (b1) piers Nos. 1, 2 and 3; (b2) piers Nos. 1 and 2; (b3) price per lin.ft. increase or decrease in length of concrete piles. Bids were received from: Spalding Construction Co., Rialto Bldg., San Francisco, Calif., (a) $163,966; (b) $118,943; (b1) $90,320; (b2) $61,503; (b3) $1.50. Hawaiian Dredging Co., Honolulu, Hawaii, (a) $155,000; (b) $113,953; (b1) $85,870; (b2) $58,800; (b3) $1.40. John Monk, Sharon Bldg., San Francisco, Calif., (b) $134,000; (b1) $119,000; (b2) $86,000; (b3) $1.50.

Town Improvements—Anchorage, Alaska—Townsite of Anchorage, Alaska, under supervision of Alaskan Engineering Commission, contemplates town improvements, water works, electric-power plant, telephone, sewers and street improvements. J. G. Watts, Townsite Engr., would like catalogs and other information.

MISCELLANEOUS

Drydock—Boston, Mass.—Contract will probably be awarded to Holbrook, Cabot & Rollins for drydock by Executive Council.

Barge Canal Work—Albany, N. Y.—(Official)—Bids were received Sept. 14 by W. W. Wotherspoon, State Supt. of Pub. Wks., for Contract L, Cryuga and Seneca Canal: Scott Bros., Rome, at $59,928; Chesley, Earl & Heimbach, Inc., Buffalo, $62,046, and Stanley Construction Co., Buffalo, $63,061; and for Terminal Contract 40: J. E. Bishop, Syracuse, $25,515, was low bidder.

Freight Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until noon, Oct. 1, by R. A. C. Smith, Comr. of Docks, Pier A, Manhattan, for Contract No. 1473 for freight shed on pier near 35th St.

Freight Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Snare & Triest, New York, at $213,370, low bidder for dock freight shed on pier at 30th St. Noted Sept .9.

Pier—New York, N. Y.—(Borough of Brooklyn)—Sinking Fund Commission will build new pier near pier at Dreamland Park, Coney Island. R. A. C. Smith, Dock Comr.

✚**Ballast**—New York, N. Y.—(Borough of Manhattan)—(Official)—Contracts awarded by Public Service Commission to UPPER HUDSON STONE CO., at $228,010 for (a), and to HAVERSTRAW CRUSHED STONE CO., at $26,320 for (b), for stone. Contract (c), awarded by Commission to Upper Hudson Stone Co. withdrawn and bids will be readvertised. Noted Sept. 16.

Extending Pier—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until noon, Sept. 28, by R. A. C. Smith, Comr. of Docks, Pier A, Manhattan, for extending Pier 32, near Jay St., North River.

Creek Improvements—North Tonawanda, N. Y.—Bids were received by Superintendent of Public Works for improving Sawyer's Creek: H. S. Kerbaugh, Inc., Buffalo, $9,800, and Eastover Construction Co., Inc., Utica, $10,200.

✚**Jetties**—Atlantic City, N. J.—Contract awarded to J. W. INGERSOLL, at $22,031, for jetties at Iowa and Boston Ave. John W. Hackney, City Engr.

Inland Waterway—Brielle, N. J.—Bids will soon be received by New Jersey State Commerce & Navigation Board for Barnegat Bay-Manasuan River inland waterway, to form link in Cape May canal.

Pier—Camden, N. J.—Harbor Commissioner plans pier at 28th St. L. H. Farnham, City Engr.

Meter Repair Station—Newark, N. J.—Bids will be received until Sept. 30 for meter repair station at 14th Ave. and South Eighth St. for Water Department. M. R. Sherrerd, Ch. Engr. Estimated cost, $21,000.

Bulkhead—Eddystone, Penn.—Baldwin Locomotive Works contemplates bulkhead on Delaware River. Estimated cost, $200,000.

Flood Protection—Erie, Penn.—Surveys being made for improvement of Mill Creek by Farley Gannett, Harrisburg. B. E. Briggs, City Eng. Noted Aug. 26.

Dam—Green Lane, Penn.—State surveyors making surveys for rebuilding Klondike dam, which was recently broken.

Coal Storage—Philadelphia, Penn.—Bids will be received until Sept. 30 for coal storage and appliances for Queen Lane pumping station, at Ridge Ave. and School Lane for Department of Public Works. J. S. Ely, Asst. Engr.

Superstructures—Philadelphia, Penn.—Bids will be received until Oct. 31 by A. M. Taylor, Dir. Dept. of City Transit, for superstructures of Frankford Elevated line.

✚**Tunnel**—Rittersville, Penn.—(Allentown post office)—Contract awarded to W. A. STEIN & CO. for concrete tunnel at State Homeopathic Hospital.

✚**Bulkheads**—Jacksonville, Fla.—Contract awarded to WADE, POWERS & WADE, Jacksonville, for sheet steel piling and wood work for bulkhead for Commodore's Point Terminal Co. Noted Aug. 12.

✚**Canal**—Parish, Fla.—Contract awarded to EDGAR CHAPMAN, Plant City, at about $125,000, for canal work in Gamble Creek Drainage District. Noted July 29.

Barge Line—Shreveport, La.—Press reports state Shreveport contemplates barge line between Shreveport and New Orleans. J. B. Arkis and J. B. Atkins, interested.

Underground Passage—Cincinnati, Ohio—Joseph G. Stefahamp & Bro., Cincinnati, and B. Kingston Hall, New York, N. Y., prepared preliminary plans for underground parking system for automobiles.

Levee Bonds—Portsmouth, Ohio—Bonds for $70,000 for levee work will be sold Oct. 5 by George L. Gableman, City Audr.

Soldiers Monument—Bloomfield, Ind.—Green County Council voted $25,000 bonds for soldiers' monument.

Dock—Peoria, Ill.—Citizens contemplate dock at Cedar St and river.

Harbor Improvements—Milwaukee, Wis.—Harbor Commission will ask for appropriation of $200,000 for harbor improvements.

Sea Wall—Muscatine, Iowa—Vertical sea wall will be built along Mississippi River. J. Kimball, Davenport, Engr.

Ditch—Mankato, Minn.—County Ditch No. 38 will be built at estimated cost of $98,107. It will be 28 miles long.

Drainage—Strong City, Kan.—Surveys made for drainage district in Chase County.

Drainage—Tekamah, Neb.—(Official)—Bids will be received until noon, Oct. 2, by Towl Engineering Co., Omaha, for 500,000 cu.yd. of excavation on old ditches and 300,000 cu.yd. of new excavation.

Drainage—Harrisonville, Mo.—Citizens of Cass and Bates Counties plan drainage district to drain about 20,000 acres along Grand River. J. H. McCulloh, Garden City, interested. Estimated cost, $250,000.

Flood Protection—Kansas City, Mo.—Surveys will be made for flood protection work on Turkey Creek.

Subway—St. Louis, Mo.—St. Louis Subway & Elevated Corporation being formed and will build subway to downtown section. James D. Houseman, F. E. Niesen, Bank of Commerce Bldg., J. E. Hereford, Pres. Trust Co. of St. Louis County, and others, interested.

Ditches—Pocahontas, Ark.—(Official)—Bids will be received until Oct. 1 by T. Z. Johnson for ditches in Township 18, about 83,371 cu.yd. of earth removal.

Wharf—Beaumont, Tex.—According to press reports bids being received by Wharf & Dock Commission for second unit of Municipal Wharves.

Drainage—Cuero, Tex.—Bonds for $30,000 sold by De Witt County for Drainage District No. 1.

Dock—Maryhill, Wash.—Concrete dock will be built by Portland Dock Commission.

Swimming Pool—Spokane, Wash.—City Council plans swimming pool at estimated cost of $10,000. G. W. Duffy, City Clk.

✚**Dock**—Portland, Ore.—Contract awarded to J. A. BACKSTRAND, at $12,150, for municipal dock at Stark St.

✚**Levees**—Arbuckle, Calif.—Contracts awarded for levee work as follows: ASA KALFSBECK, at $4,502, for work along Baldson lands; W. T. WILKINS & SON, at $8,040, for work from Sachreiter line on Sycamore slough to Hannum bridge, and to W. T. WILKINS, at $4,500 for work in District 108.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

✚**Thomaston, Maine**—Contract for municipal building awarded J. W. BISHOP CO., Worcester, Mass. Estimated cost, $50,000.

Boston, Mass.—Bids will be received by City Hospital Department until Sept. 25 for additions to 11 hospitals. Wells & Dana, 29 Central St., Arch.

✚**Boston, Mass.**—Contract for store and office building for High St. Trust awarded JAMES BLACK MASONRY & CONTRACTING CO., Boston. Noted July 29.

★✚**Boston, Mass.**—Contract for Administration Building on Fruit St. for General Hospital awarded NORCROSS BROS., Tremont Bldg., Boston. Estimated cost, $150,000.

Brockton, Mass.—Bids will be received about Oct. 5 for theater, store and office buildnig for Crescent Amusement Co., Boston. Estimated cost, $400,000.

✚**Brockton, Mass.**—Contract for theater at Main and School St. for Empire Theater Co. awarded DAVID IRVING CO., 31 High St. Estimated cost, $40,000.

✚**Cambridge, Mass.**—City of Cambridge awarded contract for hospital and boiler house to WALSH BROS., Cambridge, at $78,000. Noted Sept. 16.

Chelsea, Mass.—Bids will be received by the Mayor until Sept. 30 for three-story addition to Williams School. Estimated cost, $112,000. Wilham & Hopkins, Boston, Arch. Noted July 29.

Chicopee, Mass.—Congregation St. Stanislaus Polish Church will build new school. Lawrence Cyman, Pastor.

Danvers, Mass.—Town plans to build high school. Estimated cost, $130,000.

Dedham, Mass.—Bids will be received until Sept. 25 by James G. Hutchison, Arch., 101 Tremont St., Boston, for building for Deham Masonic Lodge. Estimated cost, $46,000.

Foxboro, Mass.—Bids were received for connecting corridor at Foxboro State Hospital for Commonwealth of Massachusetts as follows: James A. Munroe, $42,812; C. S. Cunningham & Sons Construction Co., $42,812; D. L. Shepherd, $44,000.

✚**Lynn, Mass.**—(Official)—Contract for three-story, 104x133-ft., market building for J. B. Blood & Co., Ellis and Silsbee St., awarded TURNER CONSTRUCTION CO., 11 Broadway, New York.

Marlboro, Mass.—School Committee approved plans of J. F. Simpson, Arch., Newark, N. J., for new school. Estimated cost, $40,000.

✚**New Bedford, Mass.**—Contract for Maternity Building at St. Lukes Hospital awarded J. W. BISHOP CO., Worcester. Estimated cost, $50,000.

Salem, Mass.—Naumkeag Steam Cotton Co. will build office building at Congress and Lynch St. Estimated cost, $53,000.

Worcester, Mass.—Burgess & Land, Boston, Mass., plans seven-story business block at Federal St. and Allen Court.

✚Providence, R. I.—Contract for 18-room school at Beaufort St. and Mt. Pleasant Ave awarded HOPE BUILDING CO., 87 Weybosset St., Providence, at $144,435. Noted Aug. 26.

Providence, R. I.—Bids will soon be received for two-story, 128x139-ft., church for Central Baptist Society. Jackson, Robertson & Adams, 1216 Turks Head Bldg., Arch.

★Albany, N. Y.—(Official)—Bids will be received until 3 p.m., Oct. 5, by Trustees of Public Buildings, Executive Chamber, Capitol, Albany, for alterations in Capitol. Noted Aug. 12.

East Aurora, N. Y.—Plans prepared by Harris & Merritt, Arch., Buffalo, for high school. Estimated cost, $110,000.

Hicksville, N. Y.—Plans being prepared by Holmes & Winslow, Arch., 103 Park Ave., New York, for building for Bank of Hicksville.

New York, N. Y.—(Borough of Manhattan)—Plans prepared by William H. Birkmire, Arch., for 12-story mercantile building at 53-57 West 23d St. through to 34 West 24th St. for Nameloc Co. Estimated cost, $300,000.

New York, N. Y.—(Borough of Manhattan)—Plans prepared by Ernest Flagg, Arch., for eight-story hospital on Broad St. Estimated cost, $150,000.

✚New York, N. Y.—(Borough of Manhattan)—(Official)—Contract for office building at 42d St. and Madison Ave. for August Heckscher, 576 Fifth Ave., awarded to RUSSELL B. SMITH, 305 Madison Ave. Estimated cost, $600,000.

✚New York, N. Y.—(Borough of Manhattan)—(Official)—Contract for loft building at 27 Cliff St. for 27 Cliff Street Corporation, 431 West 14th St., awarded STANDARD CONCRETE STEEL CO., 413 East 31st St. J. S. Maher, 431 West 14th St., Arch.

Rochester, N. Y.—Plans being prepared by Komes & Kauzor, Arch., Pittsburgh, Penn., and C. W. Eldridge, Assoc. Arch., Rochester, for parish house and church for Holy Rosary congregation. Estimated cost, $60,000.

Bayonne, N. J.—Board of Education plans to rebuild Public School No. 4. Estimated cost, $130,000. Noted July 29.

Elizabeth, N. J.—National Bank of Elizabeth contemplates new building. Estimated cost, $75,000.

Jersey City, N. J.—Date for receiving bids for county jail for Hudson County extended to 3 p.m., Oct. 7. Noted Sept. 2.

✚Jersey City, N. J.—Contract for Public School No. 5, Smith and Robert St., North Bergen, awarded J. J. MARIONE CONSTRUCTION CO., at $65,480.

Newark, N. J.—Members of Salaam Temple, Nobles of Mystic Shrine, contemplate mosque. Estimated cost, $250,000. A. C. Snyder, Second Ave., Chn. Bldg. Com.

Philadelphia, Penn.—Abel Bottoms & Sons Co., at $59,989, submitted the lowest bid for addition to McIntyre School, 39th and Gordon St.

✚Philadelphia, Penn.—Contract for police and fire station at Huntington Park Ave. and Schuyler St. awarded HARRY H. WEHMEYER, Philadelphia, at $104,000.

Pittsburgh, Penn.—Braddock General Hospital plans three-story addition. Estimated cost, $80,000.

Wilkes-Barre, Penn.—Plans being revised by Sturdevant & Poggi, Arch., Coal Exchange Bldg., for Masonic Lodge Building. Estimated cost, $75,000.

✚Princeton, W. Va.—Board of Education awarded contract for school at Konah and Richie St. to JAMISON & KARNS, Princeton. Estimated cost, $65,000.

Winston-Salem, N. C.—B. S. Womble plans business building on West Fourth St. near Cherry St. Estimated cost, $40,000.

Chattanooga, Tenn.—Plans being considered by Congregational Church for new building. Estimated cost, $50,000. C. H. Meyers, Pastor.

Glasgow, Ky.—According to press reports hotel will be built on Green St. Estimated cost, $50,000.

Canton, Ohio—Bids will be received about Oct. 1 for high school. Estimated cost, $700,000. N. C. Lane, Clk., Bd. of Education.

Cincinnati, Ohio—Bids will be received until Sept. 25 by Harry Hake and Charles H. Kuck, Arch., 1105 Cincinnati & Suburban Bell Telephone Bldg., for bank and office building for Provident Savings Bank & Trust Co. Estimated cost, $100,000.

✚Cleveland, Ohio—JAMES L. STEWART, Cleveland, awarded contract for addition to Hollenden Hotel, Superior and East Sixth St. Estimated cost, $200,000. Noted Aug. 26.

✚Cleveland, Ohio—Contract for school on Aetna Rd. for Congregation of Christ awarded E. CONVERSE, Massillon, at $45,000. Noted Aug. 12.

Dayton, Ohio—Preliminary plans prepared by Albert Pretzinger and Edward P. Musselman, Arch., for three-story school. Estimated cost, $150,000. C. J. Schmidt, Clk., Bd. of Education.

✚Ironton, Ohio—Contract for hotel and store building for Ironton Hotel Co. awarded to REED CONSTRUCTION CO., Charleston, W. Va. Estimated cost, $175,000.

Marion, Ohio—Bids will be received until noon, Oct. 2, by Jeanette L. Hutchinson, Clk., Bd. of Education, for high school. Marriott, Allen & Hall, Columbus, Arch.

Portsmouth, Ohio—Ritter Bates will build hotel on Gallia St. west of Gay St. Estimated cost, $250,000.

Youngstown, Ohio—Plans being prepared by Knox, Elliott, 1248 Rockefeller Bldg., Cleveland, for hotel, theater and store building for Realty Trust Co. Estimated cost, $300,000.

Zanesville, Ohio—Armco Athletic Club contemplates club house and grandstand. Estimated cost, $50,000. C. M. Bowlby, Corry St., Arch.

Columbus, Ind.—Graham & Hill, Arch., Indianapolis, retained to prepare plans for temple for St. Johns Lodge of Masons. Estimated cost, $40,000.

Indianapolis, Ind.—Preliminary plans being prepared by Rubush & Hunter, Arch., for three-story building for Masonic Scottish Rite Temple Association. Estimated cost, $500,000.

Terre Haute, Ind.—Plans being prepared by A. Hubbard, Arch., Champaign, Ill., for building for Masonic Temple Association. Estimated cost, $100,000. J. N. Hickman, 1219 Wabash Ave., Chn. Bldg. Com.

Grand Rapids, Mich.—Bids will be received by State Military Board until 9 a.m., Sept. 29, for armory for Grand Rapids Battalion. Williamson & Crow, Arch.

Chicago, Ill.—Plans prepared for dormitory for Garrett Biblical Institute. Estimated cost, $150,000.

Chicago, Ill.—Plans being prepared by J. B. Dibelka, State Arch., 128 North Fifth Ave., for five-story armory for First Cavalry, I. N. G. Estimated cost, $200,000. Holabird & Roche, 104 South Michigan Ave., Consult. Arch.

✚Galesburg, Ill.—Contract for seven-story office building at Kellogg and Main St. awarded HENRY W. HORST CO., Rock Island.

✚Eau Claire, Wis.—Contract for city hall awarded HOEPPNER & BARTLETT, Eau Claire, at $65,000. Noted Aug. 19.

✚Sheboygan, Wis.—(Official)—Contract for city hall awarded by Board of Public Works to IMMEL CONSTRUCTION CO., Fond du Lac. Estimated cost, $115,000. Noted Sept. 9.

Union Grove, Wis.—State Control Board plans home for feeble-minded. Estimated cost, $200,000.

Watertown, Wis.—Bids will be received by A. Frattinger, Chn., Bldg. Com., until 7 p.m., Oct. 11, for high school. Estimated cost, $100,000. Parkinson & Dockendorff, La Crosse, Arch.

✚Ames, Iowa—(Official)—Contract for science hall at Iowa State College awarded J. B. EVANS CONSTRUCTION CO., Mexico, Mo., at $49,280. W. H. Gemmill, Secy. Noted Sept. 2 and 9.

North Washington, Iowa—Plans being prepared by Anton Dohmen, Arch., 525 First National Bank, Milwaukee, Wis., for 48x84x150-ft. brick church for Immaculate Conception congregation.

Ottumwa, Iowa—Ottumwa Stock Co. plans to build hotel. Estimated cost, $150,000.

Sioux City, Iowa—Plans being prepared by W. L. Steel, Sioux City, and Purcell & Elmslee, Arch., 422 Auditorium Bldg., Minneapolis, Minn., for courthouse for Woodbury County. Estimated cost, $500,000.

✚Tipton, Iowa—County Commissioners awarded contract for county house to GUARANTEE CONSTRUCTION CO., Cedar Rapids, at $44,714. Noted Aug 19.

Waterloo, Iowa—BLACKHAWK CONSTRUCTION CO., Waterloo, at $50,000, awarded contract for freight depot for Waterloo, Cedar Falls & Northern R.R.

Minneapolis, Minn.—Bids being received by Buechner & Orth, Arch., 500 Shubert Bldg., St. Paul, for a theater for M. L. Cohen & Co., 239 Nicolett Ave. Estimated cost, $80,000.

Minneapolis, Minn.—Finkelstein & Rubens will build motion-picture theater . Estimated cost, $75,000.

St. Paul, Minn.—Plans prepared by Buechner & Orth, Arch., 500 Shubert Bldg., for theater hotel and store building for Herman L. Benz, 409 Jackson St.

St. Paul, Minn.—(Official)—Bids will be received about Oct. 15 for a building at Cedar and Central St. for Minnesota State Historical Society. Noted July 1.

Columbia, Mo.—T. B. Hall will build theater at Ninth and Cherry St. Estimated cost, $40,000.

Kansas City, Mo.—Plans being prepared by Carl Boller & Bro., Arch., Gayety Bldg., for business building for Altman Realty Co., 320 Altman Bldg. Estimated cost, $100,000.

✚Argenta, Ark.—Contract for Matthews Building at Second and Main St. awarded L. COLLAMORE, Little Rock, at $75,000.

Beaumont, Tex.—Plans being prepared by Cook & Co., Arch., for seven-story hotel at Pearl and Crockett St. for Likens Ogden. Estimated cost, $85,000.

Corsicana, Tex.—J. C. Joplin & Bros., Houston, at $70,858, low bidder for hospital dormitory for Texas State Orphan's Home Association. Noted Aug. 12.

Galveston, Tex.—Galveston Natatorium Co. being organized with capital stock of $175,000 to build four-story reinforced-concrete natatorium.

Lamesa, Tex.—Taxpayers of Dawson County voted to issue $43,000 bonds for new courthouse.

Waco, Tex.—Work will soon be started on new building for Texas Telephone Co. Estimated cost, $80,000.

Pueblo, Colo.—Election will be held Nov. 2 to vote for $300,000 bonds for new city hall. J. M. Jackson, City Clk.

✚Douglas, Ariz.—(Official)—Contract for two schools and addition to high school awarded to T. B. STEWART, Phoenix, at $70,500. Noted July 8.

Tucson, Ariz.—Plans are being prepared by Sidney Mashbir, Arch., for city hall. Bonds for $50,000 voted for purpose.

Seattle, Wash.—Plans being prepared by F. F. Travis, Arch., for five-story, 120x215-ft., hospital near Seattle.

✚Seattle, Wash.—Contract for seven-story hotel for Imperial Hotel Co. awarded PUGET SOUND CONSTRUCTION CO., Central Bldg., Seattle, at $135,000.

Woodburn, Ore.—Citizens voted to issue $40,000 bonds for school.

Berkeley, Calif.—(Official)—Contracts awarded for building to be known as Benjamin Ide Wheeler Hall at University of California as follows: Excavation and concrete, COLLMAN & COLLMAN, $96,913; steel, PACIFIC ROLLING MILL CO., $49,420; steel erection, CALIFORNIA CONSTRUCTION CO., $11,475. Noted July 29.

Susanville, Calif.—Board of Supervisors awarded contract for courthouse to JAMES L. McLAUGHLIN, San Francisco, at $77,797.

Visalia, Calif.—City plans to build auditorium.

Construction News

Starting with this week's issue we are making under our regular headings subheadings to cover two different classes of work—one to read, "Proposed Work," and the other, "Bids In and Contracts Awarded." The subscriber interested in contracts awarded will therefore not find it necessary to go through the entire list to find out what contracts are closed and what are pending.

RAILWAYS—STEAM AND ELECTRICAL

Proposed Work

Connecticut—Connecticut Co., New Haven, Conn., will extend its double-track line on Main St., East Hartford. C. H. Chapman, Mgr.

New York—Buffalo & Depew Ry. Co. has asked Council for franchise for extension of its line from Ellicott Rd. and Central Ave. to New York Central R.R. tracks. G. A. Ricker, Ch. Engr.

New York—International Ry. Co., Buffalo, N. Y., plans lines as follows: Between Sycamore and William St., in 1916; between William and Seneca St. in 1917; between Sycamore and Ferry St. in 1918 and East Ferry St. and Kensington Ave. in 1919, about three miles in all. E. G. Connette, Pres.

New York—International Ry. Co., Kenmore, N. Y., will double-track its main line in Kenmore. J. C. Sheldon, Buffalo, Pur. Agt.

New York—Western New York & Pennsylvania Traction Co., Olean, N. Y., plans extension from Westons Mills to Cuba Lake. I. W. Miller, Oleon, Gen. Mgr.

New Jersey—Salem-Pennsgrove Traction Co., Salem, N. J., has asked Council for franchise for construction of line between Salem and Pennsgrove. Noted Aug. 26.

Pennsylvania—Phoenixville, Valley Forge & Strafford Electric Co., Phoenixville, Penn., has plans for extension of its line from Valley Forge to a connection with Philadelphia & Western Ry. at Bridgeport, about seven miles. Thomas E. O'Connell, Phoenixville, Pres., and Gen. Mgr.

Virginia—Richmond, Rappahannock & Northern Ry. Co., Richmond, Va., have had surveys made for proposed line from West Point to Urbanna. Warner Moore, Pres. Noted Aug. 19.

West Virginia—Glade Creek Coal Co., Fayetteville, W. Va., will build railway from Ephraim Creek to mine near Landsburg, about 11 miles.

West Virginia—Virginia Ry. Co., Winding Gulf, Va., engaged E. M. Merrill, Raleigh County Bank Bldg., Beckley, W. Va., as engineer for work on Winding Gulf coal property.

North Carolina—Carolina & Northwestern Ry., Newton, N. C., will improve its roadbed by straightening its line and raising tracks. J. W. Fletcher, Jr., Chester, S. C., Ch. Engr.

North Carolina—Virginia Lumber & Box Co., Goldsboro, N. C., will build railway from Sevensprings to Goldsboro. W. L. Muser, Petersburg, Va., Pres.

South Carolina—Blue Ridge Ry. Co., Walhalla, S. C., plans extension from West Union to tunnel through Stumphouse Mt. J. R. Anderson, Anderson, S. C., Supt.

South Carolina—Charleston-Southern Ry. Co., Charleston, S. C., will build steam or electric railway from Charleston to Hutchinson Island, about 86 miles. Bright Williamson, Darlington, Pres.

Georgia—Americus, Hawkinsville & Eastern Ry., Americus, Ga., plans to build a railway from Americus to Hawkinsville via Byromville, about 55 miles. J. S. Morton, Americus, interested.

Georgia—Wrightsville, Odrian & Lyons Ry., Adrian, sold to F. J. Garbutt, Sandersville, Ga. The line will be completed.

Tennessee—H. H. Mayberry, Nashville, Tenn., interested in railway from Edgefield Junction (Edenwold post office) to Springfield.

Kentucky—Yellow Poplar Lumber Co., Pikeville, Ky., will build narrow gage railroad to its lumber mill on Shelby Creek.

Ohio—Mansfield Public Utilities Co. purchased Mansfield Ry., Light & Power Co., Mansfield. Frederick Hertenstein, Cincinnati, Pres.

Indiana—Erie R.R. Co. appropriated $2,000,000 for double-tracking and elimination of surface crossing in Porter County, Ind. R. C. Falconer, New York, N. Y., Supt. of Constr.

Wisconsin—Minneapolis, St. Paul & Saulte Ste. Marie Ry., Minneapolis, Minn., plans to extend its branch line between Stevens Point and Portage to its main line south of Milwaukee, including Madison. C. N. Kalk, Minneapolis, Ch. Engr.

Iowa—Des Moines City Ry. Co., Des Moines, Iowa, will extend its line over the Seventh St. bridge, purchase 25 steel cars and rebuild 20 miles of tracks. Estimated cost, $2,000,000. L. L. Sloss, Des Moines, Supt.

Iowa—Mason City & Clear Lake Ry. Co., Mason City, Iowa, plans to reconstruct two miles of track in Clear Lake. J. F. Hanlon, Pres.

Minnesota—Reports state Great Northern Ry. Co. will build line from Virginia, Minn., to Tower, about 30 miles. A. H. Hogeland, St. Paul, Ch. Engr.

Kansas—Anthony & Northern Ry., Hutchinson, Kan., having surveys made for extension of its line from Trouseale to Kinsley and Larned. O. P. Byers, Hutchinson, Pres.

Kansas—Iola Electric Ry., Iola, Kan., contemplates extension of its lines from Iola to Humboldt. A. G. Paugh, Ch. Engr.

Missouri—Joplin & Pittsburgh Ry. Co., Kansas City, Mo., contemplates purchase of Joplin-Parsons line of Missouri, Oklahoma & Texas Ry. with view of converting it into electric railway. W. A. Satterlee, Gen. Mgr.

Missouri—St. Louis Subway & Elevated Corporation, St. Louis, Mo., will build 4.76 miles of elevated and 3.29 miles of subway. James D. Houseman and T. Hiesen, Bank of Commerce Bldg., interested.

Arkansas—Ozark Ry. Co., Ozark, Ark., recently incorporated, will build line from Greene County to Rothville, Baxter County, Ark. R. S. Wickersham, Springfield, Mo., Secy.

Texas—About 30 miles of electric railway will be built between Temple and Marlin, Tex. S. D. Hanna, Temple, Engr.

Texas—Northern Texas Traction Co., Dallas, Tex., petitioned Board of Commissioners of Dallas for franchise for double-track line on Jefferson St. between Oak Cliff Viaduct and Commerce St. C. E. Hollerder, Pur. Agt.

Texas—Texas & Pacific Ry. plans branch line from either Big Springs, Tex., or Midland to Seminole. G. J. Ganes, Pres.

Oklahoma—Reported that interurban railway from Henryetta to Dewar, about 10 miles, is under consideration.

Oklahoma—Surveys being made for railway to connect Columbus, Galena, Baxter Springs, Miami and Centralia by Oklahoma & Interstate Ry. Co., Miami, Okla. John R. Rose, Oklahoma City, Pres.

Washington—Tacoma Ry. & Power Co., Tacoma, Wash., will extend its line to Steilacoom. G. W. Rounds, Tacoma, Gen. Supt.

California—Bids will be received by Board of Supervisors, San Jose, Calif., for franchise for constructing and operating electric railway. Henry A. Pfister, County Clk.

California—Municipal Ry. of San Francisco, San Francisco, Calif., contemplates extending its line on Union St. through Presidio reservation to Fort Winfield Scott. T. A. Cashin, Supt. and Claim Agt.

California—South San Francisco Ry. & Power Co., South San Francisco, Calif., received franchise from Council and will build and operate single-track or double-track electric line over extension of Grand Ave. Noted Aug. 19. W. J. Martin, South San Francisco, Pres.

Alberta—Edmonton, Dunvegan & British Columbia Ry. will continue construction of its line to Murray's, Alta. J. D. McArthur, Edmonton, Pres.

Bids In and Contracts Awarded

South Carolina—Southern Ry. Co. awarded contract to M. M. ELKAN, Macon, Ga., for second track from Easley to Central and to H. J. DUNAVANT & CO., Knoxville, for second track from Greenville to Easley. W. H. Wells, Easley, Ch. Engr. Const.

Kansas—Cudahy Packing Co., Fowler, Kan., awarded contract to CAMERON, JOYCE & CO., Midland Bldg., Kansas City, Mo., for grading, bridging and laying track for eight miles of railway from Fowler to its silicafe beds.

HEAT, LIGHT AND POWER

Proposed Work

N. H., Georges Mills—Arthur S. Stocker has applied to Public Service Commission for permission to install electric-light system.

Mass., Ludlow—Ludlow Electric Light Co. plans new power house on upper East St.

N. Y., Buffalo—Buffalo Cold Storage Co. will build power house. Estimated cost, $45,000.

N. Y., Warsaw—Warsaw Gas & Electric Light Co. has applied to Public Service Commission to install electric-light plant in Warsaw and Gainesville.

Penn., Confluence—Municipal electric-light plant plans to extend transmission lines to Ursina.

Del., Wilmington—Plans being prepared by Peucket & Wunder, Arch., Philadelphia, Penn., for baking plant, stable and power house for William Freihofer Baking Co.

Md., Baltimore—Carnegie Steel Co. plans storage and power plant building on Wicomico St. between Bush and Elk St.

W. Va., Martinsburg—Martinsburg Power Co. will be reorganized under the name of the Potomac Light & Power Co. Plans being considered for improving four existing dams and five plants of company. Estimated cost, $100,000.

N. C., Granite Falls—Granite Falls Mfg. Co. plans to equip its cotton mill with electrically driven machinery. Estimated cost, $40,000.

N. C., Lumberton—Bids will be received by city until Oct. 12 for improving municipal electric-light system.

Ga., Cornelia—Wafford Shoals Light & Power Co. plans to double transformer capacity of its plant at Wafford Shoals, near Baldwin.

Ala., Fairhope—Citizens voted bonds for municipal electric-light plant.

Tenn., Chattanooga—Chattanooga and Tennessee River Power Co. plans to install four generators at its Hades Bar plant.

Ky., Johnson City—City considering municipal electric-light plant.

Ky., Winchester—Kentucky River Power Co., Hazard, plans new power plant and transmission system. Estimated cost, $325,000.

Ohio, Cleveland—St. Johns Hospital will build boiler house at 7911 Detroit Ave. Estimated cost, $10,000.

Ohio, West Salem—West Salem Light and Ice Co. granted franchise for electric-light plant in connection with its ice factory.

Ind., Portland—City Engineer authorized to prepare estimate of cost of extension to municipal power house to provide space for transformers.

Mich., Morley—A number of Detroit business men are negotiating the purchase of dam and flowage rights of Little Muskegon Power Co. If same is purchased power plant will be built. Estimated cost, $30,000.

Ill., Dixon—Bids will be received until Oct. 18 by Board of Administration, Capitol, Springfield, for power house, laundry building, cold-storage building and bakery on site of State Colony for Epileptics, about three miles north of Dixon.

Wis., Haugen—Franchise granted Wisconsin-Minnesota Light & Power Co. of Eau Claire for electric-light and power plant.

Wis., Malden Rock—Permission granted L. Mathys to construct and operate electric-light plant.

Iowa, Glidden—J. C. Merritt contemplates electric-light plant. Estimated cost, $5,000.

Iowa, Iowa Falls—Iowa River Light Co. has applied for a franchise to transmit electricity from its plant to Morrison and Reinbeck.

Iowa, Marathon—Citizens voted $12,000 bonds for municipal electric-light plant. Noted Aug. 19.

Iowa, West Union—According to press reports Turkey River Power Co. plans new addition to its plant. Estimated cost, $20,000.

Minn., Butterfield—Citizens voted $8,000 bonds for electric line to connect with line at St. James of Consumers Power Co.

Minn., Waverly—E. G. Howard, St. Cloud, plans to install electric-light plant in Waverly.

Minn., West Concord—Village Council granted franchise to Commonwealth Power Co. of Mankato for electric-light plant.

Kan., Atwood—Plans being prepared by Black & Veach, Engr., 507 Interstate Bldg., Kansas City, Mo., for municipal electric-light plant. Estimated cost, $14,000.

Kan., Goff—Citizens voted $8,000 bonds for transmission line from Centralia.

Kan., South Haven—An additional generating unit will be installed in plant of South Haven Electric Light Co. A 25-hp. oil engine and 30-kw. generator will be required.

S. D., Bradley—E. H. Lewis, Lake Preston, plans to install electric-light plant in Bradley.

Ore., Roseburg—City Council petitioned to issue $225,000 bonds for municipal electric-lighting system.

Calif., Burbank—Election will be held Oct. 12 to vote $30,000 bonds for electric-light plant and distributing system.

Calif., Hanford—Plans prepared for heating and ventilating system to be installed in central school. Estimated cost, $10,000. Noted Aug. 19.

Que., Quebec—Armagh Electric Co. plans to build electric-light plant to supply electricity to five of principal villages in Bellechasse County.

Ont., Ridgetown—Plans will be prepared for hydro-electric power station. Estimated cost, $10,000.

Alta., Calgary—City considering proposal of Alberta Hydro-Electric Power Co. to build electric-light plant and supply electricity to city.

Bids In and Contracts Awarded

N. Y., White Plains—(Official)—Contract for heating and ventilating in new courthouse awarded to TERAN, MAHONEY & MUNRO at $18,000.

Penn., Harrisburg—Contract for electrical work for three buildings to be constructed at State Hospital for Insane at Fairview awarded to FRANCIS BUCHANAN, Philadelphia.

Penn., Philadelphia—Contract for electrical equipment for six-story building at 11th and Race St. awarded to UNITED ELECTRIC CONSTRUCTION CO., Philadelphia.

Tex., San Angelo—(Official)—Contract awarded to BOLLINGER-PESTTY CO., at $13,400, for heating and plumbing equipment in new high school.

BRIDGES

Proposed Work

Maine, Frankfort—State Highway Commission, Augusta, extended date for receiving bids for bridge in Frankfort to Oct. 5.

Conn., Hartford—Bids will be received by State Highway Commissioner until noon, Oct. 11, for superstructure of bridges in New Hartford, Southington and Granby.

Conn., Hartford—State Highway Commisisoner accepted plans for Strauss bascule bridge for the lift draw over the Saugatuck River, Westport.

N. Y., Binghamton—Bids will be received by the County Superintendent of Highways until 10 a.m., Oct. 4, for replacing the bridge over Big Snake Creek near Corbettsville.

N. Y., Binghamton—Bids will be received until 7 p.m., Oct. 1, by County Superintendent of Highways, for bridge over Choconut Creek, Dickinson.

N. Y., Ft. Edward—(Official)—Bids will be received by Alfred Case, Jr., Town Supt., until 2 p.m., Oct. 9, for bridge over the Hudson River at Ft. Edward.

N. Y., Lyons Falls—Plans prepared by Frank Williams, State Engr., Albany, for completing bridge over Black and Moose Rivers at Lyons Falls. Estimated cost, $59,385.

N. Y., Olean—Common Council rejected all bids received Sept. 7 for highway bridge over the Allegheny River at 11th St., Olean. Noted Aug. 26.

N. Y., Schenectady—Frank Williams, State Engr., Albany, approved plans for bridge across Mohawk River at Schenectady.

Penn., Doylestown—Bids will be received until Oct. 4 by the Commissioners of Bucks County for bridge over Pleasant Springs Creek, Doylestown.

Penn., Glenfield—Bids will be received by W. N. Kratzer, Burgess, until Oct. 27, for reconstructing bridge over Killbuck Creek, Bridge St.

Va., Goochland—(Official)—Bids will be received until noon, Oct. 4, at the Clerk's Office, Goochland County, for bridge over Byrd Creek, about one mile from Elk Hill. G. P. Coleman, State Highway Comr.

S. C., Greenville—Plans being considered by Southern Ry. for a steel viaduct with concrete pedestals across Saluda River on double track between Greenville and Central. W. H. Wells, Washington, D. C., Ch. Engr. Constr.

Fla., Arcadia—Bids will be received until Oct. 11 by A. L. Durrance, Clk., De Sota County Comrs., for bridges in Special Road and Bridge District No. 1.

Fla., De Land—Election will be held in Volusia County Nov. 9 to vote $110,000 bonds for bridges and roads.

Fla., Miami—Election will be held Oct. 19 in Dade County to vote on organization of special road and bridge district and to issue $275,000 bonds for bridges and road from Miami to Marco.

Miss., Belzoni—Bids will be received until Oct. 4 for reinforced-concrete bridge across Fisk Bayou.

Ohio, Batavia—Bids will be received by C. Searles, County Audr., until noon, Oct. 4, for steel superstructure and flooring over east fork of Little Miami River.

Ohio, Wapakoneta—Bids will be received by F. W. Langhorft, County Audr., until 10 a.m., Oct. 9, for two concrete arches at either end of Hamilton St., Wapakoneta.

Ind., Bedford—An appropriation of $15,000 made by City Council for concrete bridge across Salt Creek.

Ind., Greensburg—City Council plans an expenditure of $12,500 for bridge repairs.

Ind., Monticello—An appropriation of $25,000 made by County Commisisoners of White County for new bridges and for Springboro Bridge.

Mich., Benton Harbor—Election will be held Oct. 11 to vote $53,000 bonds for viaducts on Britain and Edwards Ave. and High St.

Mich., Grand Rapids—According to press reports county and state plan bridge across Plaster Creek at Grand Ave.

Ill., Carmi—(Official)—Bids will be received until 1:30 p.m., Oct. 5, at the County Clerk's Office, for bridge work in Carmi Township, White County. G. H. Brown, Carmi, County Supt. Highways.

Ill., Shelbyville—Plans approved by County Board of Supervisors for bridge over Kaskaskia River between Shelby and Moultrie Counties, about three miles east of Findlay. Estimated cost, $21,000.

Minn., Breckenridge—Bids will be received until Oct. 8 by P. E. Truax, County Audr., for six steel culverts and 11 steel bridges. Estimated cost, $12,228.

Minn., Springfield—Bids will be received by Charles L. Palmer until 1 p.m., Oct. 9, for bridge on public highway over coal mine, Brown County.

Neb., Fairbury—Plans being prepared for a 700-ft. bridge in Fairbury to replace present structure. G. N. Johnson, Lincoln, State Engr.

N. D., Cavalier—County Commissioners considering bridges in Bathgate Township. W. M. Felson, County Audr.

Mont., Hamilton—Bids will be received by F. C. Robbins, County Clk., until 2:30 p.m., Oct. 4, for six bridges in Raville County.

Mont., Hardin—Bids will be received until 2 p.m., Oct. 4, by Board of Commissioners of Big Horn County, for highway bridge over Tongue River, Township 9, South Range 40 East, Big Horn County.

Tex., Dallas—Bids will be received by the County Commissioners until 10 a.m., Oct. 30, for the Commerce St. Viaduct over Trinity River. Estimated cost, $135,000. Noted Aug. 5.

Tex., Rockport—Citizens of Aransas County voted $300,000 bonds for causeway across Aransas Bay between Lamar and Live Oak peninsulars. Noted Sept. 9.

Tex., Waco—Election will be held Oct. 19 to vote $10,000 bonds for bridges.

Okla., Chandler—(Official)—Date for receiving bids for 12 bridges extended to Oct. 4. Noted Sept. 9.

Idaho, Hailey—County Commissioners rejected all bids received Sept. 13 for bridge across Malad River. New bids will be asked. Noted Sept. 9.

Ariz., Holbrook—Election will soon be held to vote $68,000 bonds for bridges on county roads.

Wash., Hoquiam—Citizens defeated $100,000 bond issue for two bridges and paving.

Ore., Portland—Municipal Department of Public Works completed plans for extension of Union Ave. from its present terminus at Bryant St. northward to Columbia Slough Rd. to connect with the interstate bridge approach. A reinforced-concrete viaduct will be required. Estimated cost of viaduct, $33,000, and fill, $13,000.

Calif., Yuba City—County Surveyor instructed to prepare plans for steel draw bridge over Feather River at Nicholaus. Estimated cost, $75,000.

Ont., Trenton—City will build reinforced-concrete bridge across Trent River. Estimated cost, $40,000.

Que., Ste. Martine—Bids will be received by N. Mallette, Secy. and Treas., until 7 p.m., Oct. 4, for steel bridge at the outlet of Beau River, Parish of Ste. Martine, Chateauguay County.

Bids In and Contracts Awarded

Maine, Kingfield—Bids were received by State Highway Commission, Augusta, for bridge in Kingfield as follows: C. H. Barron, Lewiston, $17,263; Edmond Cyr & Co., Waterville, $17,321; H. P. Cummings Co., Portland, $18,487.

N. Y., Albany—Contract for substructure, superstructure and approaches of Gorham St. Bridge, Waterloo, awarded to SCOTT BROS., Rome, at $59,928. Noted Aug. 19 and Sept. 23.

N. J., Matawan—Board of Chosen Freeholders of Monmouth County awarded contract for bridge over Matawan Creek on South Amboy-Keyport Rd. to LONG-BROADHURST CO., Hackensack, at $34,320. Noted Aug. 19 and Sept. 23.

Penn., Bangor—(Official)—Contract for County Bridge No. 48 over Martins Creek, Borough of Bangor, awarded to JACOB STEM, Stroudsburg, at $4,450. Noted Sept. 2.

Ky., Pineville—Contract for bridge across Cumberland River near Brownies Creek awarded to VINCENNES BRIDGE CO., Vincennes, Ind., at $9,021.

Ohio, Cleveland—(Official)—Contract for foundation and approaches of Union Ave. grade crossing awarded to ROBERT GRACE CONTRACTING CO., Pittsburgh, Penn., at $103,373; steel work, KING BRIDGE CO., Cleveland, at $34,892. Noted Sept. 2.

Ohio, Youngstown—Contract for steel bridge across Mahoning River on Fredericksburg Rd., Milton Township, moving and erecting Carson Bridge over Mahoning River, also grading stretch of Palmyra Rd. awarded to MASSILLON BRIDGE & STRUCTURAL CO., Massillon, at about $9,000.

Ind., Logansport—Vandalia R.R. Co. awarded contract for bridge over Wabash River to WISCONSIN BRIDGE & IRON CO., North Milwaukee, at about $60,000.

Iowa, Avoca—Contract for bridge over Nishnabotna River near Avoca awarded to IOWA BRIDGE CO., Des Moines, at $6,965.

Iowa, West Union—WATERLOO CONSTRUCTION CO., Waterloo, at $12,980, awarded contract for steel truss bridge in Oran Township, concrete deck girder bridge in Jefferson Township and concrete box culverts in Oran Township.

Neb., Harrison—Contract for bridge across Hat Creek near Montrose awarded to WESTERN BRIDGE & CONSTRUCTION CO.

N. D., Beach—Contract for bridge on Section 15-142-104 awarded to NORTHERN BRIDGE CO.

Mont., Roundup—(Official)—Contract for three bridges over the Musselshell River at Gage, Delphia and Ryegate awarded to SECURITY BRIDGE CO., Billings, as follows: Gage, $6,988; Delphia and Ryegate, $8,990 each. Contract for Absher Bridge not awarded. Noted Sept. 9.

Mont., Virginia City—Contract for two bridges over Big Hole Creek awarded to O. E. PEPPARD, at $8,980.

Okla., Catoosa—R. W. CANFIELD, at $17,900, awarded contract for bridge over Verdigris River at Claremore.

Calif., Oroville—Contract for eight concrete bridges on State Highway between Durham and Nelson awarded to CHICO CONSTRUCTION CO., Chico, at $12,987.

Ont., Simcoe—Contract for Argyle St. bridge for Lake Erie & Northern Ry. Co. awarded to JOHNSON BROS., Brantford. Estimated cost, $4,600.

Alberta—Contract for superstructure of railway bridge over Smoky River, Alberta, for Dominion, Dunegan & British Columbia Ry. awarded to DOMINION BRIDGE CO., LTD.

WATER-WORKS

Proposed Work

N. Y., Rochester—Common Council authorized bond issue of $100,000 for water system

N. J., Jersey City—City Comm'ssioners will soon ask bids for twin pipe line from Brooksdale to Jersey City. Estimated cost, $1,500,000. Henry M. Byrne, Comr.

Penn., Leighton—Citizens contemplate municipal water system.

Penn., Newport—City considering water and sewage system.

Penn., Pine Grove—Permit granted for storage reservoir and gravity supply main.

Del., Newport—Citizens contemplate water and sewer systems.

Va., South Boston—Anderson & Christie, Charlotte, N. C., is Engr., for water and sewer systems. Bids will probably be received for construction in October. Estimated cost, $125,000. E. U. Hardig, City Clk. Noted Aug. 19.

Ga., Savannah—City plans to improve water system.

La., Shreveport—Water Company declined to accept offer of city of $750,000 for its plant. Election will be held Nov. 4, to vote $1,200,000 bonds for municipal water system. Noted Sept. 23.

Tenn., Lonsdale—(Knoxville post office)—Election will be held Oct. 30 to vote on $30,000 bonds for water system.

Ky., Louisville—Louisville Water Board rejected all bids for laying 48-in. water main and will do the work itself.

Ky., Paducah—Citizens contemplate issuing $250,000 bonds for water system.

Ohio, Byesville—Election will be held in November to vote $40,000 bonds for water system.

Ohio, Cincinnati—Election will be held to vote $400,000 bonds for high-pressure fire service.

Ohio, Cleveland—(Official)—Bids will be received by Commissioner of Purchases and Supplies, Room 511, City Hall, until noon, Oct. 6, for c.-i. adjustable valve boxes for Department of Public Utilities, Division of Water.

Ohio, Farmersville—(Official)—Construction of waterworks will probably be postponed until next year. A. F. Gilbert, Village Clk. Noted Aug. 26 and Sept. 16.

Ohio, Findlay—City Council plans to issue $5,000 bonds to extend water mains to West Park.

Ohio, Middletown—(Official)—Bids will be received until noon, Oct. 6, by City Commissioners, for driving a number of wells.

Ohio, Weston—(Official)—Citizens defeated bond issue for water system. Noted Sept. 16.

Ind., Miller—Date for receiving bids for water system extended to Oct. 20. Estimated cost, $14,000. Noted Aug. 26 and Sept. 9.

Ind., Monticello—Bids will be received until Oct. 12 by City Council for two compound duplex pumps for water-works. F. L. Miner, City Clk.

Mich., McBain—Citizens voted $9,400 bonds for water system.

Mich., Wyandotte—Citizens defeated $30,000 bond issue for water system and electric-light plant.

Ill., Clinton—City Council will purchase high-pressure fire pump. Estimated cost, $4,500.

Ill., East Dundee—Koeppen, Schartow & Ehylert, Dundee, at $7,564, was low bidder for reinforced-concrete reservoir.

Ill., Galesburg—Election will probably be held to vote $100,000 bonds for water system and electric-light plant.

Ill., Jacksonville—Bids will be received until 3 p.m., Oct. 4, by Frank D. Whipp, State Fiscal Superv., for c.-i. water main to be installed at Illinois School for Blind.

Ill., Mackinaw—Citizens voted $8,500 bonds for purchase of water-works. Noted Sept. 9.

Ill., Monticello—Bids will be received until 8 p.m., Oct. 12, by City Clk., for two compound duplex steam pumps with necessary valves, piping, razing steel standpipe and brick tower.

Wis., Cornell—Work will soon be started on new water system.

Iowa, Kanawha—(Official)—Bids will be received by the City Clk. until 2 p.m., Oct. 15, for 30,000-gal. steel tank on an 80-ft. tower and 7,000 ft. of 4- to 6-in. water main.

Iowa, Marcus—Bids will soon be received for pumping station, steel tower and tank and water mains. G. Y. Skeele, Sioux City, Engr. Noted Sept. 16.

Iowa, Sidney—Bids will be received by C. B. Hatton, Town Clk., until 2 p.m., Oct. 5, for improving water system. Noted Aug. 29.

Iowa, Terril—Bonds for $8,500 sold for water system.

Minn., Aurora—Bids will soon be received for concrete reservoir and brick pumping station, also for two 600-gal. pumps.

Minn., Ely—Election will be held to vote on bond issue for improvements to water system.

Minn., Mahnomen—Village Council plans to extend water mains four blocks south on Main St. from Monroe Ave.

Minn., Minneapolis—Bids will be received until 3 p.m., Oct. 7, by Kossuth E. Alexander, City Pur. Agt., for furnishing riveted-steel pipe.

Minn., Red Lake Falls—Bids will be received until 7:30 p.m., Oct. 4, by Joseph Perrault, City Clk., for drilling artesian well.

Minn., St. Paul—(Official)—City will issue $400,000 bonds for 30-million-gal. and seven-million-gal. covered reservoir, 15-million-gal. pumping engine, motor driven, revolving screening equipment with building estimated to cost $10,000 and two Venturi meters with necessary piping.

Minn., St. Paul—Board of Commonwealth ordered water mains laid on Central Ave. from Lexington Ave. to Dunlap St., James St. from Lexington to Summit Ave., Farrington Ave. from Lawson to Oliver St., Hand Ave. from Front to Geranium St., Chestnut St. from Washington to Water St., Water St. from Eagle to St. Clair St., Elm St. from the levee to Mill St. and Mill St. from Elm St. to Smith Ave.

Minn., Sleepy Eye—Bids will be received until 8 p.m., Oct. 5, by H. C. Peterson, City Recdr., for making extensions to water system.

Minn., Thief River Falls—Bids will be received until 8 p.m., Oct. 5, by E. J. Overland ,City Clk., for 1,250 lin.ft. 6-in. water mains, three hydrants, three 6-in. tees, two 6-in. gate valves and boxes, and twelve 6-in. plugs.

Kan., Ford—Investigation will be made by Commercial Club regarding possibility of securing water system and electric-light plant.

Kan., Manhattan—Public Utilities Commission has authorized issue of $69,500 bonds for improving water system.

Neb., Pleasantville—Bids will be received until 4 p.m., Oct. 12, by A. E. Pearson, City Clk., for water system.

Neb., Schuyler—Citizens plan to extend water system.

N. D., Minot—(Official)—Bids will be received until 8 p.m., Oct. 4, by Board of City Commissioners for about two miles of 6- to 8-in. watermain, 25 hydrants and 29 gates. Estimated cost, $18,357. E. J. Thomas, City Engr. (See adv.)

Mo., Eldorado Springs—Citizens defeated proposition to issue $15,000 bonds for extension of water system. Noted Aug. 19.

Mo., Lees Summit—Plans being prepared by Henrici, Kent & Lowry Engineering Co., Kansas City, for water system. Estimated cost, $45,000.

Tex., Amarillo—Plans being prepared by Burns & McDonnel, Engr., Kansas City, Mo., for water system.

Tex., Galveston—City Commission applied to War Department for services of Lieut. Col. C. S. Riche, U. S. Army Engr., to supervise permanent water-main between Galveston and Alta Loma plant. Main to be 30 or 36 in. in diameter. Estimated cost, $150,000 to $200,000.

Colo., Platteville—Citizens voted $20,000 bonds for water system. Noted Sept. 9.

Idaho, Council—Election will be held Oct. 11 to vote $20,000 bonds for municipal water system. Noted Aug. 26.

Idaho, Kellogg—Kellogg Water Power Co. received franchise from City Council for constructing and operating water system.

Wash., Ridgefield—Election will be held Oct. 23 to vote $11,000 bonds for water system. Noted Sept. 2 and 16.

Wash, Seattle—Board of Public Works contemplates water mains in Dexeter Ave. Estimated cost, $32,000. C. H. Dimock, City Engr.

Ore., Amity—Ralph Marvin, City Engr., instructed to prepare plans for water system. Estimated cost, $15,000.

Ore., Prineville—Project is on foot to form irrigation district to build reservoirs on Ochoco and Crooked Rivers to obtain sufficient water to reclaim about 25,000 acres of land north of Prineville. E. J. Wilson and H. A. Kelly interested.

Que., East Angus—Extensions will be made to water system. Estimated cost, $5,000. R. C. Cowling, City Clk.

Ont., Markham—E. A. James, Engr., 57 Adelaide St., Toronto, preparing plans for extensions to waterworks system. Cost, $25,000. New mains, tanks, and 60,000-gal. storage basin.

Man., The Narrows—Bids will be received until 2 p.m., Oct. 12, by H. H. Elliott, Town Clk., for improvements to water system. Murphy & Underwood, 8 Bottomley Blk., Saskatoon, Sask., Engr. Noted July 29.

Man., Winnipeg—Board of Control contemplates water main extensions in Centennial Ave. Estimated cost, $5,000. W. P. Brereton, 223 James Ave., Engr.

Bids In and Contracts Awarded

Conn., Haddam—Contract for 4,600 ft. of tarred pipe in connection with water supply for county home and all buildings at Haddam awarded to BROWN BROS., Middletown, Conn.

N. Y., Manchester—(Official)—Contract for water system awarded to BLIVEN & BEALS, Rochester, at $23,418. Noted Sept. 2.

New York, N. Y.—(Official)—Contract awarded to F. N. KEWIS, 411 Manhattan Ave., New York, at $13,411, by Board of Water Supply for water-pipe equipment in shafts of city tunnel of Catskill Aqueduct. Noted Sept. 9.

Penn., Connellsville—Contract for addition to pumping station of Connellsville Water Co. at Bluestone awarded CONNELLSVILLE CONSTRUCTION CO.

Penn., South Bethlehem—Contract for water system at University Heights awarded to STANDARD SUPPLY CO., Philadelphia, at $10,000.

Md., Baltimore—Contract awarded to UNITED STATES CAST IRON PIPE & FOUNDRY CO., Burlington, N. J., at $4,895 for water pipe and fittings.

La., Gretna—J. R. Sutherlin & Co., Kansas City, Mo., at $46,830, submitted the lowest bid for water system.

Ky., Covington—(Official)—Bids were received Sept. 16 for trenching in Licking River, (a) one line, (b) two lines, from: L. Eid Concrete and Steel Co., (a) $23,090, (b) $29,446; Thomas P. Strack, (a) $27,217, (b) $38,930; Claude Harris, (a) $27,952, (b) $39,532. George Hornung & Son, Newport, Consult. Engr. Noted Sept. 9.

Ohio, Brewster—Contract awarded to ROSS-COOK ENGINEERING CO., 193 Brosby St., Akron, at $19,000, for water system. W. J. Sherman Co., Nasby, Toledo, Engr. Noted Sept. 16.

Ohio, Cleveland—Contract for test borings at Kirtland filtration plant awarded to GILBERT & HARTSHORNE CO., at $4,390. Noted Aug. 19.

Wis., Madison—Contract awarded by Board of Public Works to ALLIS-CHALMERS MFG. CO., Milwaukee, at $8,815, for sub-pumping station at Greenbush, near Madison.

Wis., Oconomowoc—Contract awarded to A. J. HEWITT, Milwaukee, at $7,000 for water and sewer systems in Woodland Park for Frederick Pabst.

Wis., Wittenberg—Contracts for water system awarded as follows: Pipe, AMERICAN CAST IRON PIPE CO., at $4,815; valves and hydrants, LUDLOW VALVE CO., at $503; laying pipe, F. C. KAMINSKI, at $3,135. Noted July 29.

Iowa, Traer—Contract for 200,000-gal. storage reservoir and water mains awarded to JOSEPH SEDA, Traer, at $4,560. Noted Sept. 16.

Mont., Chinook—Contract awarded to PITTSBURGH FILTER MFG. CO., Pittsburgh, Penn., at $16,415, for filtration plant. Noted Sept. 23.

Mont., Fromberg—(Official)—Contract for water system awarded to SECURITY BRIDGE CO., Billings, at $15,980. Noted Sept. 16.

Mo., Macon—Contracts for filtration plant and settling basin awarded as follows: MIDDLETON & LUDLOW, Kansas City, $5,990; mechanical equipment for filter plant, PITTSBURGH FILTER MFG. CO., Kansas City, $4,310; steel pipe, FAIRBANKS, MORSE & CO., Kansas City, at $6,018. Noted Aug. 12 and Sept. 2.

Colo., Craig—Contract for water system awarded to SCHWARTZ, Colorado Springs. Estimated cost, $40,000.

Calif., Chino—Contract for 26-in. well for Chino Land Water Co. awarded to A. J. OLSON.

Calif., San Francisco—Board of Works awarded contracts to the INGERSOLL-RAND CO. and the RIX COMPRESSED AIR CO. for air-compressing plant and drills for use at Hetchy Hetchy project. Karl Erhart at $24,984, submitted lowest bid for clearing a portion of site.

Ont., Hamilton—Contract for new pump house at [illegible] awarded to JOHN POAG, Westinghouse Ave., Hamilton. New equipment needed.

Ont., Stratford—Public Utilities Commission awarded contract for standpipe, segmental type, to CANADIAN CHICAGO BRIDGE AND IRON WORKS, Sarnia, at $24,800, exclusive of base and two pumps. Noted Sept. 16.

SEWER

Proposed Work

N. H., Manchester—City will build trunk sewer in South Manchester.

Mass., Boston—(Official)—Bids will be received until 1:30 p.m., Oct. 6, by Metropolitan Water and Sewerage Board for Section 1A, Deer Island outfall extension to sewer.

Mass., Cambridge—Committee on Sewers of Council adopted ordinance for sewers in Allston and Leonard St.

Mass., Somerville—Board of Aldermen plans storm water drain across Somerville field, Powderhouse Blvd. and North St.

R. I., Providence—Council plans sewers in Bayard St., River Ave. and Smith St. and in several other streets.

R. I., Providence—Board of Aldermen passed resolution appropriating $6,000 for surface water drain at Carrington Ave. and Maple St.

N. Y., Batavia—Chester & Fleming, Pittsburgh, Penn., retained by city to prepare plans for rebuilding sewage-disposal plant.

N. Y., Buffalo—Common Council authorized tile sewers in Stevens St. and Shenandoah Rd.

N. J., Bound Brook—(Official)—Bids will be received until Oct. 5 by Borough Council for laying storm water sewer in East Main St. Stanley Brampton, Clk.

N. J., Fairview—Bids will be received until 8 p.m., Oct. 6, by Mayor and Council for sanitary and storm sewers in Lincoln and Prospect St. James F. Lyons, Borough Clk.

N. J., Garfield—Board of Chosen Freeholders, Hackensack, appropriated $12,000 for storm drain in Garfield.

N. J., South Boundbrook—(Official)—Bids will be received until 8 p.m., Oct. 11, by Borough Council for 3.8 miles of vitrified-pipe sewers. Peter Merlett, Clk. and Clyde Potts, 30 Church St., New York, N. Y., Engr. Noted Aug. 26. (See adv.)

N. J., Verona—Bonds for $80,000 for sewers and sewage-disposal plant voted. Noted Sept. 9.

Penn, Mt. Pleasant—City Council has authorized sewers in South Hitchman, North Hitchman, North Silver, Oak, Howard and Sycamore St.

La., Bogalusa—Citizens plan to hold election in October to vote on $200,000 bonds for sewers, water and light. G. U. Borde, New Orleans, has made a report.

Ky., Lexington—P. H. Norcross, Atlanta, Ga., retained to prepare plans for sewage-disposal plant. J. Ernest Cassidy, Mayor.

Ohio, Coshocton—Surface drainage sewer system recommended by Mayor to Council.

Ohio, Salem—(Official)—Bids will be received until noon, Oct. 2, by I. N. Russell, Dir. of Pub. Ser., for storm water sewer in East Main St.

Ohio, Zanesville—Election will be held in November to vote on $52,650 sewer bonds.

Ind., Buffington—City contemplates sewer system.

Ind., Indianapolis—Board of Public Works plans sewer in East Michigan St. at estimated cost of $31,000 and sewer in Germania Ave. at cost of $16,000.

Mich., Marquette—Morgan Wright, City Engr., preparing plans for storm sewers in Third and Fourth St.

Ill., Averyville—(Peoria post office)—Citizens plan sanitary sewer system at estimated cost of $55,000.

Ill., Joliet—Citizens in district east of Joliet contemplate sewer system for Spring and Hickory Creek districts. Estimated cost, $500,000.

Wis., Green Bay—Bids will be received until 10 a.m., Oct. 4, by Committee on Sewers and Plumbing of Common Council for various sewers. L. Findeisen is Member of Com.

Wis., La Crosse—Extensions will be made to sewer system at estimated cost of $200,000. George Bradish, City Engr., preparing plans.

Wis., Milwaukee—Citizens defeated bond issue for $1,500,000 for sewer construction. Noted Aug. 12.

Iowa, Algona—Bids will be received until Oct. 5, by S. W. Crowell, City Clk., for sewers in Grove, Dodge, Diagonal and other streets.

Iowa, Des Moines—Bids will soon be received for Closes Creek sewer system. Estimated cost, $197,657.

Iowa, Esterville—Bids will be received until noon, Oct. 4, by N. B. Egbert, City Clk., for sewer in North Sixth St.

Iowa, La Mars—City Council contemplates storm water sewer in West Sixth St.

Iowa, Lisbon—City Council will install sewer system.

Iowa, Morningside—(Sioux City post office)—Bids will soon be received for sewer system for North Morningside. Estimated cost, $12,000.

Iowa, Oakland—J. H. Mayne, Engr., prepared plans for sewer system.

Iowa, Sioux City—City will build North Morningside sewer system. Estimated cost, $12,000.

Iowa, West Union—Citizens will build sewer system in 1916.

Minn., Anoka—(Official)—City retained L. P. Wolff, Consult. Engr., St. Paul, to prepare plans for sewer system and sewage-disposal plant.

Minn., Glenwood—Bids will be received until Oct. 5, by City Commission for sewers. N. P. Norling, City Clk.

Minn., St. Paul—City Council plans sewers in various streets. Estimated cost, $136,000.

Minn., Waseco—Plans being prepared by City Engineer for sewer in Ninth St.

Neb., Pender—Surveys being made for sewer system.

S. D., Aberdeen—City Commissioners authorized the preparation of plans for sewers in Second St.

N. D., Fargo—(Official)—Bids will be received until 10 a.m., Oct. 6, by A. R. Watkins, City Audr., for 12-in. lateral sewer in South Terrace.

N. D., Minot—Bids will be received until 8 p.m., Oct. 4, by Board of City Commissioners for sewers in various streets. A. D. Hagenstein, City Audr. Noted Sept. 16.

Mont., Columbus—Plans prepared for sewer system. Estimated cost, $10,000. Noted Aug. 26.

Mo., Alton—Plans will be prepared for sewer to inclose Piasa Creek. J. Beall, Mayor.

Mo., St. Joseph—Citizens contemplate spending $550,000 for improvements to sewer system.

Ark., Derott—(Official)—Bids will be received until 4 p.m., Oct. 8, by Sewer Improvement District No. 2 for sewage-disposal plant. A. C. Blanks, Secy. of Comrs.

Tex., Arlington—Citizens voted $10,000 bonds for extension of sewer system.

Tex., Austin—Improvements will be made to sewer system by city forces. Noted Sept. 16.

Tex., Beaumont—Bids will be received until Oct. 19, by J. G. Sutton, City Secy., for 30,690 ft. of sanitary sewers. C. L. Scherer, City Engr.

Tex., Corsicana—Election will be held Oct. 10 to vote on $20,000 sewer bonds.

Tex., Gatesville—Citizens plan sewer system. Estimated cost, $25,000. T. R. Mears, Mayor.

Tex., Henderson—J. M. Wood, Oberlin, Ohio, granted franchise to construct and operate sewer system.

Tex., Waco—Election will be held Oct. 19 to vote $75,000 bonds for sewers and sewage-disposal plant. Noted Aug. 12.

Okla., Cushing—(Official)—Bonds for $30,000 for intercepting sewers voted. Benham Engineering Co., Oklahoma City, Engr. Noted Sept. 9.

Okla., Marlow—(Official)—Citizens defeated $15,000 bond issue for sanitary sewer system. Noted Sept. 9.

Colo, Boulder—Citizens plan sewer system and street paving at estimated cost of $16,000. George Joslyn, City Engr., and Leonard Metcalf, Boston, Mass., Sewer Engr.

N. M., Deming—(Official)—We have been advised that improvements will not be made to sewer system till 1916. A. A. Tenike, Clk. Noted Aug. 5.

Idaho, Idaho Falls—City contemplates sewers in three districts. Estimated cost, $23,000. W. P. Dawes, City Clk.

Idaho, Mountain Home—(Official)—Bids will be received until Oct. 7 by Sewer Committee for sewer system and sewage-disposal plant. F. E. Austin, Chn. of Com. Noted Sept. 9.

Ariz., Mesa—(Official)—Bids will be received until Oct. 5 by Town Clerk for sewer system including 16 miles of sewers. Estimated cost, $70,000. H. S. Hancock, Phoenix, City Engr. Noted June 24.

Ariz., Tucson—Surveys being made for outfall sewer system. Estimated cost, $50,000.

Wash., Roslyn—Bids will be received until Oct. 11 by George T. Wake, City Clk., for sewer improvements in Local Improvement Districts 1, 2, 3 and 4. Noted Sept. 2.

Wash., Seattle—Board of Public Works plans outfall sewer in Seaview Ave. A. H. Dimock, City Engr., submitted plans. Estimated cost, $452,566.

Ore., Portland—Plans prepared for sewers in various streets. A. L. Barbour, City Clk.

Calif., Visalia—Bids will be received until Oct. 6 by City Trustees for sewer work. Estimated cost, $65,000.

Alta., Edmonton—Election will be held to vote on $250,000 bonds for sewage-disposal plant.

Ont., Galt—Town Council will lay storm and sanitary sewers at estimated cost of $4,000. C. D. Campbell, Engr., and Joseph McCartney, Clk.

Ont., Guelph—Sewers will be laid in Beverly, Harris, Prospect and Johnson St. Estimated cost, $5,188. F. McArthur, Engr.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contracts awarded to ANTHONY BARNFFALDI, 9 Parker Pl., at $9,071, for sewer in Telford St., and to J. L. PIERCE & CO., at $473, for sewer in Lanark Rd. Noted Sept. 9.

N. Y., Rochester—Contract awarded to MICHAEL RIPTON, at $11,899, for sewer tunnel in Graves St.

N. Y., Schenectady—Contract awarded to THOMAS F. MacGREGOR, at $24,342, for sewers. Noted Sept. 23.

N. Y., Westerlo—Contract awarded to FOUNDATION CO., at $172,772, for sewage pumping station at Westerlo Island.

N. Y., Yorktown Heights—All bids received Aug. 31 for sewage-disposal plant rejected by Board of Managers of New York State Training School for Boys. Noted Aug. 19.

N. J., Bogota—(Hackensack post office)—Contract awarded to AVERILL & MATHEWS, Newark, at $6,349, for sewer extension in River Rd.

N. J., Edgewater—Bids were received for sewer outlet No. 10 as follows: E. C. Humphry, Hackensack, $73,855; John J. McGarry, $52,759, and Edward English, $44,571.

N. J., Montclair—Contract awarded to CESTONE CONSTRUCTION CO., at about $15,000, for storm water drain in Valley Rd.

N. J., Newark—All bids received for Meadow Brook Outlet sewer rejected. Noted Sept. 2.

W. Va., Huntington—Contract awarded to AMOS TRAINOR, at $6,500, for sewer system in First and Second Wards. Noted Sept. 2.

Ohio, Cleveland—(Official)—Contract awarded to W. P. GIBBONS CONTRACTING CO., 3135 Scranton Rd., at $13,456, for sewers. Noted Sept. 9.

Ohio, Medina—Glenn W. Hadley, Canton, at $5,612, low bidder for laying 8,811 ft. of sewer pipe and manholes. George L. McNeal, Village Clk.

Ohio, Portsmouth—Contract awarded to JOHN A. GRIMES, at $4,421, for Sunnyside sewer system.

Ind., Indianapolis—Contract awarded to COLUMBIA CONSTRUCTION CO., at $22,826, by Board of Public Works for intercepting sewer. Noted Aug. 26.

Mich., Grand Rapids—(Official)—Contract awarded to A. H. PRANGE, Grand Rapids, at $10,000, for sewage-disposal plant for East Grand Rapids. Noted Sept. 9.

Mich., Reed City—Contract awarded to ISAAC H. WELLS, Kalamazoo, at $16,884, for storm sewers. Noted Sept. 9.

Wis., Elroy—(Official)—Contract awarded to GORDON & HINES, Elroy, for sewers in West and Cedar St. Noted Sept. 23.

Wis., Milwaukee—(Official)—Contract awarded to A. J HEWITT, 810 Majestic Bldg., Milwaukee, at $37,697, for tunnel sewer in Lake St. Noted Sept. 2.

Wis., South Kaukauna—Contract awarded to GEORGE MULHOLLAND, Kaukauna, at $4,587, for sewers in various streets.

Wis., Superior—(Official)—Contract awarded to PATORET CONSTRUCTION CO., Superior, at $6,159, for sewer work. Noted Sept. 9.

Minn., Brainerd—(Official)—Contract awarded to ILSTRUP & OLSON, Minneapolis, at $1 per ft. for sewers in Lot B, District 4 and $0.93 per ft. for Lot B, Districts 4 and 7. Noted Sept. 2.

Minn., St. Paul—(Official)—Contract awarded to SIEMS-CAREY CO., at $95,000, for Fredericka-Fairmount sewer system.

S. D., Centerville—(Official)—Contract awarded to SCHRUTH & JACKSON, Fargo, N. D., at $24,066, for sewers. Noted Sept. 2.

Wash., Seattle—McDonald & Jones, Seattle, at $15,548, low bidder for overflow sewers in First Ave., N. W.

Calif., Pasadena—Contract awarded to J. E. HADDOCK, 357 North Chester Ave., at $25,900, for storm water conduit in Seco St.

Ont., Berlin—(Official)—Contract awarded to GEORGE B. MOOGK, Weston, for sewer work. Noted Sept. 16.

Ont., London—Contract awarded to JOHN McMURPHY, Hyman Hall, Queen's Pond Park Ave., London, for sewers in Quebec, Reyburn and Salisbury St.

Ont., Toronto—Contract awarded to MOYES CONSTRUCTION CO., at $18,000 for sewer in Dundas St. Sewer in St. Clair Rd. will be built by city forces. Noted Aug. 26.

GARBAGE

Proposed Work

N. Y., Buffalo—Revised plans being prepared by Howard L. Beck, City Arch., for three-story addition to city garbage disposal plant, Hamburg St. and Lake Shore R.R. Estimated cost, $150,000.

Mich., Ishpeming—Installation of garbage incinerator contemplated. Estimated cost, $6,000.

Mo., St. Joseph—Election will probably be held to vote $15,000 bonds for garbage incinerator.

Bids In and Contracts Awarded

Mass., Revere—Contract awarded to W. A. and H. A. ROOT, INC., 1 Beacon St., Boston, at $20,000 for incinerator and boiler house.

N. J., Newark—Board of Works will soon award contract for collection and disposal of garbage.

Ill., Rock Island—(Official)—We have been advised that contract for garbage incinerator has not been awarded as stated in our issue of Sept. 16. Meeting will be held in October to consider award. Noted Sept. 16.

STREETS AND ROADS

Proposed Work

N. Y., Buffalo—Bids will soon be received for paving Exeter Ave. and Galveston Pl. and for repaving Jersey St.

N. Y., Buffalo—Bids will be received until 11 a.m., Oct. 2, by Department of Public Works, 5 Municipal Bldg., for paving northerly and southerly courts to Porter Ave. Pumping Station.

N. Y., Forestburgh—Taxpayers voted bonds for $6,000 for road from Forestburgh to line of town of Thompson.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., Room 2, Borough Hall, until 11 a.m., Oct. 6, for regulating, grading, paving, curbing and laying sidewalks on various streets.

N. Y., New York—(Borough of Manhattan)—Bids will soon be received for repaving a number of streets of the borough.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by the Park Board, Dept. of Parks, Municipal Bldg., until 3 p.m., Oct. 7, for improving the walks of Central and other parks in the borough.

N. Y., New York—(Borough of Queens)—Bids will be received by Maurice E. Connolly, Borough Pres., until 11 a.m., Oct. 5, for improving Jerome Ave. from Boyd Ave. to Greenwood Ave., Fourth Ward, and South Ave. from New York Ave. to Rockaway Turnpike, Fourth Ward; also for furnishing and delivering 200,000 gal. of light road oil or refined tar oil.

N. Y., New Berlin—(Official)—Bids will be received until Oct. 2 by Village Board for 1,800 lin.ft. concrete paving. (See Adv.)

N. J., Cape May C. H.—Board of Chosen Freeholders of Cape May County will build boulevard from mainland into town of Wildwood.

N. J., Freehold—Bids will be received until 11 a.m., Oct. 6, by Board of Chosen Freeholders of Monmouth County for Tennent Gordon's Corner Rd. J. M. Corlies, Dir.

N. J., Hoboken—Bids will be received until 10 a.m., Oct. 13, by the City Commissioners, for improving portions of First, Third and Harrison St.

N. J., Newark—(Official)—Bids will be received by the Board of Street and Water Commissioners until 3:30 p.m., Oct. 7, for paving Chelsea Ave. from South Orange Ave. to the city line and Cypress St. from Fabyan Pl. westerly about 249 ft.

N. J., Newark—Bids will be received until Oct. 7 by Board of Chosen Freeholders of Essex County for resurfacing Sussex Ave. with asphalt. Noted Aug. 19.

N. J., New Brunswick—Bids will be received until 2:30 p.m., Oct. 11, by Board of Freeholders of Middlesex County for Sections 2 and 3 of South Amboy-Keyport Rd. from tracks of New York & Long Branch R.R. at Morgan station to Monmouth County line at Whale Creek. A. J. Gebhardt, Dir. Noted Aug. 12 and Sept. 9.

N. J., Stone Harbor—Bonds for $33,000 sold for boardwalk at Stone Harbor.

N. J., West Hoboken—(Weehawken post office)—Bids will be received by the Town Council, Town Hall, Clinton Ave. and Charles St., until 8 p.m., Oct. 6, for improving Paterson Ave.

Md., Easton—Bids will be received by Commissioners of Talbot County until noon, Oct. 5, for one section of Static Aid highway along Harrison St., extending between the town limits of Easton and Talbot County fair grounds.

Md., Princess Anne—(Official)—All bids received Sept. 7 for 2.01 miles of State Aid Highway in Somerset County were rejected. Noted Aug. 12.

Va., Petersburg—City contemplates road between Petersburg, Hopewell and City Point. Estimated cost, $100,000. Robert Cabinass, Mayor.

Ga., Savannah—Citizens voted $75,000 bonds for road from Savannah to Tybee, Chatham County. Noted Aug. 26.

Fla., DeLand—Election will be held Oct. 9 in Volusia County Road District to issue $110,000 bonds for roads and bridges.

Fla., Dunedin—Citizens voted $8,600 bonds for street paving.

Fla., Starke—City will vote Oct. 6 on $16,000 bonds for street paving. C. F. Hoover, Mayor.

Ala., Dothan—Board of Revenue of Houston County will spend $75,000 for completion of present trunk-lines and additional roads in county.

Tenn., Murfreesboro—Election will be held in November in Rutherford County to issue $175,000 bonds to purchase and maintain turnpikes.

Tenn., Winchester—Franklin County voted $350,000 bonds for road construction.

Ky., Frenchburg—Menifee County Commisisoners contemplate five miles of road from Frenchburg to Rothwell. Estimated cost, $6,000.

Ky., Louisville—Bids will be received by the Board of Public Works until Oct. 4 for paving with asphalt Chestnut St. from 24th to 26th St. Estimated cost, $4,000.

Ky., Stanford—Citizens of Lincoln County defeated $130,000 bond issue for roads.

Ohio, Cincinnati—(Official)—Bids will be received by the Board of County Commissioners until noon, Oct. 8, for improving Wayne Ave. from Stewart Ave. to Martin Rd., Springfield Township.

Ohio, Columbus—(Official)—Bids will be received until 2 p.m., Oct. 8, by Clinton Cowen, State Highway Comr., for macadamizing 1.24 miles of Cleveland-Wooster Rd. Estimated cost, $8,409.

Ohio, East Liverpool—(Official)—Bids will be received by the Board of Trustees of Liverpool Township, City Bldg., Market and Third St., until noon, Oct. 5, for improving a number of public roads.

Ohio, Northfield—(Official)—Only one bid was received for improving Brandywine Rd., which was rejected. Noted Sept. 2.

Ind., Columbia City—Bids will be received until 2:30 p.m., Nov. 5, by the Commissioners of Whitley County, for three highways in Smith Township.

Ind., Columbia City—Bids will be received until 1 p.m., Nov. 5, by the Commissioners of Noble County, for a road on Whitley-Nobel County line.

Ind., Huntington—Bids will be received by the Board of Public Works until 7:30 p.m., Oct. 4, for sidewalks on Ogan St. H. I. Young, City Clk.

Ind., Logansport—(Official)—Bids will be received until Oct. 19 by Board of Works for 43,540 sq.yd. brick, asphalt, mated cost, $103,000. H. H. Thompson, City Engr. Noted mated cost, $103,000. H. H. Thompson, City Engr. Noted Sept. 16.

Ind., Madison—City will pave Main St. from Broadway to Walnut St. with vitrified brick.

Ind., Noblesville—Bids will be received until 10 a.m., Oct. 9, by W. O. Horton, Audr. of Hamilton County, for concrete road in Noblesville Township.

Ind., Shoals—(Official)—Bids will be received until 10 a.m., Oct. 11, by L. D. Haga, Audr. of Martin County, for road in Halbert Township.

Mich, Fremont—Citizens of Sheridan Township voted $55,000 bonds for stone and gravel road.

Wis., Green Bay—Bids will be received until 10 a.m., Oct. 8, by Committee on Streets and Bridges for grading and placing gravel or crushed stone on portions of West Mason St. F. Biemeret, Chn. Com.

Wis., Racine—Bids will be received until Oct. 9 by the Board of Public Works for paving Hamilton Ave. and Mead St.

Minn., Anoka—Bids will be received until 2 p.m., Oct. 7, by Arthur A. Caswell, Audr. of Anoka County, for improving State Rd. Nos. 4, 7 and 9.

Minn., Fergus Falls—Bids will be received until 5 p.m., Oct. 6, by City Council, for grading Laurel St. between Broadway and Buse St.

Minn., Minneapolis—Board of Park Commissioners plan to complete boulevard along north side of Pogues Run between Spades and Brookside Parks and new boulevard along south bank of stream.

Minn., St. Paul—(Official)—Bids will be received until 10 a.m., Oct. 4, by City Clerk, for repaving Robert St. from north side of Sixth St. to south side of Eighth St.

S. D., Grannvalley—(Official)—Bids will be received by the Board of County Commissioners of Buffalo County, until noon, Oct. 5, for grading road on section line between sections 26 and 27-06-68.

N. D., Bellefourche—Bids will be received until Oct. 5 by N. P. Lang, Audr. of Butte County, for Arndt Rd.

N. D., Minot—(Official)—Bids will be received until 8 p.m., Oct. 4, by Board of City Commissioners for about three miles of street improvements. Estimated cost, $32,980. E. J. Thomas, City Engr. (See adv.)

Mont., Hardin—Bids will be received by E. P. Ross, Clk., County Comrs., until Oct. 4, for 4½ miles of road between Big Horn River Bridge and Dry Creek.

Mo., Kansas City—Bids will soon be be received for approximately nine miles of brick paving on Broadway.

Mo., Maryville—Citizens of Nodaway County voted $35,000 bonds for road improvements. F. J. Yeomans, County Clk. Noted Aug. 19.

Mo., Wellington—Election will be held Oct. 8 to vote $55,000 bonds for macadamizing 10 miles of road and for two bridges.

Tex., Beaumont—Bids will be received until Oct. 19 by J. G. Sutton, City Clk., for approximately 90,000 sq.yd. of paving. Estimated cost, $85,000.

Tex., Denison—Contract will soon be awarded for 14,680 sq.yd. of paving.

Tex., Lufkin—(Official)—Voters of Angelina County defeated $200,000 bond issue for road improvements. Reported another election will be called. Noted Sept. 16.

Tex., Terrell—Attorney General's Department has approved an issue of $150,000 bonds for roads in Justice Precinct No. 8, Kaufman County.

Okla., Pawnee—Bids will be received by H. A. Rexford, City Clk., until 7:30 p.m., Oct. 4, for paving approximately 20,000 sq.yd. in business district.

Colo., Lamar—Bids will be received by L. M. Markham, Clk., Comrs. of Powers County, until noon, Oct. 11, for grading and improving Santa Fé Rd.

Idaho, Burley—Citizens voted $75,000 bonds for roads.

Idaho, Cottonwood—(Official)—Bond election will be held in October for paving main streets. E. L. Parker, Chn., Bd. City Trustees. Noted Sept. 9.

Ariz., Tucson—Election will be held Oct. 26 to issue $400,000 bonds for roads.

Wash., Pasco—(Official)—Bids will be received until Nov. 1 by County Commissioners for macadamizing trunk highways. Estimated cost, $35,000. J. W. Hamilton, County Engr. Noted Sept. 9.

Ore., Portland—Bids will soon be received for paving East 10th St. from Going St. to Alberta St. Estimated cost, $6,000.

Ore., The Dalles—Citizens of Wasco County contemplate $262,500 bond issue for road improvements.

Calif., Arcadia—Bids will be received by the Board Trustees until 8 p.m., Oct. 7, for approximately 16 miles of oiled macadam roadway and 10,000 ft. of concrete curb and gutter.

Calif., Bakersfield—Bids will be received until Oct. 7 by Board of Supervisors of Kern County for five miles of concrete pavement of Division 10, Section 15, known as Patch Loop.

Calif., Los Angeles—City Council plans to pave Western Ave. from Temple St. to Fountain Ave.

Calif., Santa Clara—City Engineer estimates cost of paving seven streets at $85,000.

Que., Verdun—Town Council will macadamize Woodland Ave. from La Salle Rd. to Bannantyne Ave.

Ont., Brockville—Council will lay tarvia pavement to cost $14,000.

Ont., Chatham—Town Council contemplates concrete pavement on Louise and Prince St. and granolithic pavement on Violet and Inches St.

Ont., Kingston—Town Council contemplates macadam roads and concrete sidewalks on a number of streets. W. W. Sands, Clk.

Ont., Stamford—Township Council plans water-bound macadam roadway. Estimated cost, $28,000.

Bids In and Contracts Awarded

Mass., Boston—(Official)—State Highway Commission awarded contract for 12,400 lin.ft. road in Granby and South Hadley to LANE CONSTRUCTION CORPORATION, Meriden, Conn., at $16,295. Noted Sept. 16.

Mass., Boston—State Highway Commission awarded contract for 7,400 lin.ft. asphalt macadam in Braintree to E. J. ROURKE, Arlington, at $12,390.

Mass., Boston—JOHN KELLY CO., 5 Ulmer St., Roxbury, awarded contract for paving Rosewood St., at $13,052.

Conn., Hartford—(Official)—Contracts for state road improvements awarded as follows: New Haven-Hartford Turnpike, New Haven and North Haven Townships to UNION PAVING CO., Schenectady, N. Y., at $22,891; Huckleberry Hill Rd., Brookfield Township to LOUIS LONGHT & BRO., Torrington, at $11,191; Orange Township to ROBERT D. DALEY CONTRACTING CO., New Haven, at $28,448; Robertsville Rd., Colebrook Township, to FRANK A. WILCOX, Norwich, at $7,852. Noted Sept. 16.

Conn., Norwalk—Contract for paving Washington St. Bridge awarded to EMPIRE CONSTRUCTION CO., New York, N. Y., at $13,439.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contracts for improving various streets awarded as follows: Glenmore Ave., Grafton St. and Hopkinson Ave., to BROOKLYN ALCARTZ PAVING CO., 407 Hamilton Ave., at $16,462, $5,475 and $3,941 respectively; Ashland Pl. to FRANKLIN CONTRACTING CO., 52 Vanderbilt Ave., at $17,428; 74th St., to TOPEKA PAVING CO., West 14th St., at $4,613; paving 64th St. to TOPEKA PAVING CO., West 14th St., at $3,873. Noted Sept. 9 and 23.

N. Y., New York—(Borough of Manhattan)—Contracts for paving awarded as follows: Haven Ave., ASPHALT CONSTRUCTION CO., 208 Broadway, New York, at $4,673; 62nd St., AZTEC ASPHALT CO., 90 West St., New York, at $15,846; 66th St., SICILIAN ASPHALT CO., 41 Park Row, New York, at $7,171. Noted Sept. 9 and 23.

N. Y., New Rochelle—Public Works Commissioner awarded contract for brick pavement on Webster Ave. to GALBANO CO., at $6,296.

N. Y., Rochester—Board of Contract and Supply awarded contracts for asphalt paving to ROCHESTER VULCANITE CO., on Frank St., at $25,000, and WHITMORE, RAUBER & VICINUS, on Grover St., at $4,101.

N. J., Bloomfield—Contract for repaving Broad St. from Bloomfield Center to Bay Ave. awarded to STANDARD BITULITHIC PAVING CO., at $37,517.

N. J., Montclair—Contract for repaving Valley Rd., Montclair, from Bloomfield Ave. to Passaic County line awarded to STANDARD BITULITHIC PAVING CO., at $86,450. Noted Aug. 26.

N. J., Montvale—(Official)—Contract for improving Magnolia and Grand Ave. will not be awarded this year.

N. J., New Brunswick—Board of Chosen Freeholders awarded contract for macadamizing Rahway Ave. from Roosevelt to Blazing Star Rd., to THOMAS F. DUNNIGAN, Woodbridge, at $26,767. Noted Aug. 19.

Fla., Palm Beach—Contract for paving Clematis Ave. awarded to F. G. PROUDFOOT, at $13,523.

Fla., Tarpon Springs—Contract for 10,000 sq.ft. of concrete sidewalks awarded to HERMAN DANN, St. Petersburg.

Ala., Linden—Commissioners of Marengo County awarded contract for sand-clay and gravel roads to HARVEY & CO., Memphis, Tenn., at $60,000. Noted Sept. 2.

Ky., Carlisle—Contract for Carlisle and Parks Ferry Rd. in Nicholas County awarded to JAMES & JONES, Louisville, at $15,000.

Ky., Carlisle—Contract for Carlisle and East Union Rd. awarded to PHELPS, POST, GUYN & CO., Lexington, at $20,000.

Ky., Louisville—Contract for paving 32nd St. from Grand to Virginia Ave. awarded to L. W. HANCOCK CO., Louisville, at $8,250.

Ky., Louisville—HENRY BICKEL CO., Louisville, at $10,500, awarded contract for paving Dupuy St. from Kentucky to Caldwell St.

Ky., Louisville—Contract for paving Brook St. from Breckenridge to Caldwell St. and Chestnut St. from Fourth to Fifth St. awarded to LOUISVILLE ASPHALT CO.

Ky., Russellville—Contract for 2.7 miles of macadam pike awarded to BYARS OPERATING & CONSTRUCTION CO., Russellville, at $10,410.

Ky., Russellville—Contract for macadam pike in Logan County awarded to RHEA PRICE, Auburn, at $7,496.

Ohio, Conneaut—Contract for improving State St. from Broad St. easterly to west end awarded to JOHN McCORMICK & SON, Erie, Penn., at $29,843.

Ohio, Toledo—(Official)—Contract for improving Stone Road Improvement No. 72 awarded to M. P. HAMMIN, Valentine Bldg., Toledo. Noted Sept. 16.

Ohio, Toledo—Contract for paving Detroit Ave. from Miami and Erie Canal to River Rd. awarded to M. P. HANNAN, at $7,350.

Ohio, Toledo—Board of Control awarded paving contracts as follows: Stickney and Huron St., to H. P. STREICHER & CO., $118,638; Streicher St. to GESSNER & COTHRELL, $27,558; Salem and Princeton St. to PETERS BROS. & CO., $12,829.

Ind., Anderson—(Official)—Commissioners of Madison County awarded contract for concrete road in Anderson Township to GEORGE HOPPS, Anderson, at $6,973. Noted Sept. 9.

Ind., Franklin—Board of County Commissioners awarded contract for gravel roads in Union and Pleasant Townships to EDWARD BARRETT, Bargersville, at $11,500.

Ill., Geneva—Contract for Section G, Route 12, of State Aid roads in Kane County awarded to GROHNE CONTRACTING CO., Joliet, at $11,988.

Ill., Kankakee—Contract for two miles of road in Yellowhead Township awarded to CLYDE DYER, at $10,790.

Ill., Paris—(Official)—Contract for gravel road on Baldwinsville state line road and gravel road on Heelan Rd. awarded to JOHN HEELAN, Paris, at $4,500. Noted Sept. 23.

Ill., St. Charles—(Official)—Bids for street improvements received Sept. 1 as follows: Wisconsin Improvement Co., Racine, Wis., $55,391 (probably awarded contract); Arwen Price, Elgin, $56,698; Logan & Giertz, Elgin, $56,988. John W. Wilson, City Engr. Noted Aug. 19.

Ill., Springfield—Contract for grading on Section F, Route 1, awarded to CAMERON, JOYCE & CO., Keokuk, at $6,195.

Wis., Fennimore—Contract for concrete pavement on Wisconsin Ave. awarded to BARTLETT CONCRETE CO., Watertown, at $11,500.

Wis., Neenah—Contract for concrete base, curb and gutter on Walnut St. awarded to PETER OSKAR, Neenah. Creosote block surface will be laid by city forces. Noted Aug. 5.

Iowa, Mt. Ayr—Contract for paving Taylor St. awarded to JOHNSON REAL ESTATE & CONSTRUCTION CO., at $22,556.

Minn., Floodwood—Board of Fine Lakes Township awarded contract for Nordess Rd. to OSCAR WILSON.

Minn., St. Paul—(Official)—Contract for paving Warsaw St. from Pleasant Ave. to Seventh St. awarded to FIELDING & SHEPLEY, St. Paul, at $17,900.

Minn., Willmar—Contract for grading streets in First Ward awarded to C. PAULSON.

Kan., Chanute—Contracts for paving North Washington Ave. and Fourth St. awarded to PERRY TAYLOR, at $14,709 and $5,129 respectively.

Kan., Garnet—Contract for paving eight or 10 blocks with brick awarded to A. L. COOK, Ottawa. Estimated cost, $50,000.

S. D., Sioux Falls—Contract for grading Willow Ave. from 10th to 12th St. awarded to E. G. LEDYARD.

Mont., Roundup—Contract for concrete sidewalks in Districts 9 and 10 awarded to JOHN TRIPP, at $13,821.

Mo., St. Louis—(Official)—Contract for approximately 60,000 cu.yd. of grading awarded to FRUIN-COLNON CONTRACTING CO., Merchant Laclede Bldg., St. Louis, at 16.6c. per cu.yd. Noted Sept. 16.

Mo., Weston—Contract for 4,000 yd. macadam paving and 100 cu.yd. grading awarded to MALEY & KELLEY, Massachusetts Bldg., Kansas City, Mo.

Tex., Paris—Contract for paving Grand Ave. from Bonham to Kaufman St. awarded to TEXAS BITULITHIC CO., Dallas. Estimated cost, $50,000. Noted Sept. 23.

Tex., San Antonio—Contracts for paving awarded as follows: North Flores St., Dolorosia St. and Military Plaza to ROACH-MANIGAN PAVING CO., Memphis, Tenn., at $32,350; North Presa St., West Commerce St. and Main Plaza to RUSHMORE & GOWDY, San Antonio, at $28,908; Nacogdoches and Nolan St. to TEXAS GRANITOID CO., San Antonio, at $13,620.

Tex., Temple—Contract for paving awarded to LAVY & LEVY, Dallas, at $50,000. Noted Aug. 12.

Idaho, Sandpoint—Council has awarded contract for international cement paving in District No. 4 to SPOKANE BITU-MASS PAVING CO., Spokane, Wash., at $1.32 per sq.yd.

Utah, Provo—Contract for paving awarded to RYBERG BROS., at $30,620.

Wash., Bremerton—Contract for improving Fourth St. awarded to E. H. L. MORRIS, Seattle, at $8,558.

Wash., Everett—Contract for 30-ft. pavement on Rucker Ave. awarded to BANCROFT & MORGAN, Everett, at $30,717. Noted July 29.

Wash., La Conner—Town Council awarded contract for concrete paving to N. W. BALL, Sedro Woolley, Wash., at $13,987. Noted Aug. 19.

Ore., Portland—Contract for paving a portion of East Seventh St. awarded to GIEBISCH & JOPLIN, at $5,841.

Calif., Arbuckle—Contract for improving Fifth St. awarded to CLARK & HENERY CONSTRUCTION CO., at $5,574.

Calif., Los Angeles—Contract for improving Third St. from Vermont to Western Ave. awarded to TRYON & BRAIN, at $72,175.

Calif., Portersville—FEDERAL CONSTRUCTION CO., San Francisco, at $50,000, awarded contract for paving Morton St., Belleview, El Grainto and Grand Ave.

Calif., Salinas—Board of Supervisors of Monterey County awarded for road work to D. C. HOWARD, Redwood City, at $16,155.

Calif, Santa Ana—OSCAR FORD, Riverside, at $14,769, awarded contract for paving a portion of Riverside Rd.

Calif., Stockton—(Official)—Contract for paving North Center, Maple and Ash St. awarded to W. H. PAUL, Oakland, at $21,969. Noted Sept. 16.

Calif., Visalia—Board of Supervisors of Tulare County awarded contract for Three Rivers Rd. to J. E. HINES, Tulare, at $13,800.

INDUSTRIAL WORKS

Proposed Work

Maine, Biddeford—J. R. Worcester & Co., 79 Milk St., Boston, Mass., prepared plans for three-story, 90x150-ft., tannery for Gobrecht Leather Co., 202 Lincoln St., Boston, Mass.

Maine, Portland—National Biscuit Co. will build plant at Kennebec and Cedar St.

N. H., Keene—Wilkins Toy Co. has plans by Herbert A. Foster for one- and two-story, 90x200-ft., brick plant. Estimated cost, $30,000.

Mass., Amherst—Holyoke St. Ry. Co. will build 100x130-ft. brick car barn and substation. G. E. Pelliser, 317 Springfield St., Engr.

Mass., Boston—Colonial Steel Co., Pittsburgh, Penn., will build steel plant at D and Fargo St., South Boston.

Mass., Boxeton—Bids will soon be received for eight-story, 70x110-ft., brick warehouse for P. C. Larkin Co., Buffalo, N. Y. Densmore & Le Clear, 88 Broad St., Engr. Noted July 29.

Mass., Springfield—W. J. Foss Co. will build brick warehouse at Broadway and Wight Ave. Estimated cost, $20,000.

N. Y., Buffalo—J. Prentiss & Co., 132 Michigan Ave., plans to rebuild warehouse, according to press reports. Estimated cost, $20,000.

N. Y., Buffalo—Bids will soon be received by Edwin C. Haas, 558 East North St., for 50x100-ft. foundry and 36x85-ft. machine shop at Grant St. and New York Central R.R. for Unique Brass Foundry Co., 25 Illinois St.

N. Y., Endicott—George F. Johnson & Co. will build shoe factory.

N. Y., Johnson—Endicott, Johnson & Co. plans to build another addition to its shoe factory on Lester Ave.

N. Y., Kingston—Plans being prepared by H. O. Chute, 197 Pearl St., New York, for one-story, 100x150-ft., reinforced-concrete picric-acid plant for Nitro Powder Co. E. Metzger, 50 Broad St., New York, Pres.

N. Y., New York—(Borough of the Bronx)—Tremont Fireproof Storage and Refrigerating Co. plans to combine buildings of Liberty Brewing Co., at 170th St. and Third Ave. and establish warehouse, cold storage plant and ice plant. John H. Ronner is interested.

N. Y., New York—(Borough of Brooklyn)—Chelsea Fiber Mills Co. has plans for four-story brick mill at 1155 Manhattan Ave. and Commercial St. Estimated cost, $30,000.

N. Y., New York—(Borough of Brooklyn)—Plans being prepared by L. Allmendinger, 926 Broadway, for 2½-story, 40x100-ft., brick bottling plant on Myrtle Ave. near Sumner Ave. for Ferdinand Munch Brewing Co. Estimated cost, $20,000.

N. Y., New York—(Borough of Brooklyn)—Sheffield Farms-Slawson-Decker Co. will build six-story, 100x252-ft., dairy at 1368 Fulton St. Estimated cost, $300,000.

N. Y., New York—(Borough of Manhattan)—(Official)—New York City Composite Brick Corporation will build two-story, 100x138-ft., plant at 201 East 129th St. Hopkins & McEntee, 37 East 28th St., Arch.

N. Y., New York—(Borough of Manhattan)—William J. Gilphey, Arch., 1 Union Sq. W., Manhattan, prepared plans for four-story, 100x10-ft., factory for Consumers Biscuit Mfg. Co.

N. Y., New York—(Borough of Queens)—Warren & Wetmore, 16 East 47th St., Manhattan, will prepare plans for four-story, 175x175-ft. warehouse and factory at Borden Ave., Van Alst Ave. and Third St., Long Island City, for American Druggists' Syndicate. H. Loewe, 205 Borden Ave., in charge. Estimated cost, $125,000.

N. Y., New York—(Borough of Queens)—Meuer Bros., 575 Flushing Ave., Brooklyn, will build plant at Haywood Ave. and Third St., Long Island City, for manufacture of steel barrels. Estimated cost, $10,000.

N. Y., New York—(Borough of Richmond)—Valentine & Kissam, 25 Madison Ave., New York, preparing plans for five-story factory near Clifton, Borough of Richmond, for Louis De Jenge & Co., 446 Richmond Turnpike, Tompkinsville.

N. Y., New Rochelle—Star Knitting Works, Grand Rapids, Mich., plans mills in New Rochelle.

N. Y., Norwich—Plans being prepared by Roy Bard, Arch., for two-story, 75x200-ft. factory for Norwich Wire Basket Co. Estimated cost, $10,000.

N. Y., Rochester—Plans prepared by Russell & King, Syracuse, for two-story, 50x90-ft., warehouse for Gibson Drug Co. Estimated cost, $15,000.

N. J., Camden—Bids will soon be received for three-story brick and concrete factory for Taylor-White Extracting Co. Ballinger & Perrot, Philadelphia, Penn., Arch.

N. J., Newark—Balbach Smelting Co., Ave. R and Doremus Ave., will build one-story steel storage building. Estimated cost, $10,000.

N. J., Newark—Joseph Oschwald will build garage at 359 Halsey St. Estimated cost, $20,000.

N. J., Newark—Celluloid Co. will build warehouse at 78 Darcy St. at estimated cost of $30,000.

N. J., Plainfield—Plans prepared for addition to machine-plant of Pond City Machine Tool Co.

N. J., Trenton—Ajax-Grieb Rubber Co. will build three-story, 200x350-ft. addition to its tire plant.

Penn., Beaver Falls—Shelby Steel Tube Co., Ellwood City, will build additions to its plant at estimated cost of $1,500,000. J. J. Dunn, Supt.

Penn., Chester—Stewart Distilling Co., Philadelphia, will build plant on Delaware River. Estimated cost, $500,000.

Penn., Ellwood City—U. S. Steel Corporation will build rolling mills and openhearth furnaces at estimated cost of $1,500,000, according to press reports.

Penn., Pittsburgh—Liquid Fuel Combustion Co. will build two factories at Main and Sycamore St., 84x136 and 96x136 ft. respectively.

Penn., Shamokin—J. H. and C. K. Eagle plan to build addition to their silk mills. Estimated cost, $500,000.

Del., Wilmington—William Freihofer Baking Co. will build bakery, stable and power plant. Peucket & Wunder, 316 Chestnut St., Philadelphia, Penn., Arch.

Md., Baltimore—Carnegie Steel Co. plans storage and power building at its plant on Wicomico St. H. D. Bush, Supt.

Va., Norfolk—Norfolk & Western Ry. will build shops. J. E. Crawford, Roanoke, Ch. Engr.

W. Va., Martinsburg—Adamantine Clay Products Co. will rebuild its plant at North Mountain which was recently destroyed by fire. Estimated cost, $75,000.

N. C., Charleston—Riverside Iron Works Co. will build plant on Metting St. Estimated cost, $25,000.

N. C., Concord—Norcott Mills is having plans prepared for three-story mill. W. G. Broadfoot, Secy.

Ga., Atlanta—Atlanta Warehouse Co. will build cotton warehouse at Stewart Ave. and Glenn St. Estimated cost $400,000.

Tenn., Murfreesboro—A company will be formed to build three-story brick underwear mill. Charles C. Groat, W. C. Bibro and T. H. Harrison are interested.

Ky., Louisville—Speed Realty Co. will build six-story warehouse for Stewart Dry Goods Co. Estimated cost, $40,000.

Ohio, Ashtabula—Missouri Iron Co., St. Louis, will build foundry. Arthur G. McKee, 1301 Rockefeller Bldg., Cleveland, Arch.

Ohio, Canton—Gordon Rubber Co. will build additions to its factory. Estimated cost, $300,000.

Ohio, Cincinnati—Plans being prepared by Stegner & Hughes, Arch., for six-story, 100x100-ft., addition to factory of Huenefeld Co., Spring Grove Ave., Camp Washington.

Ohio, Cincinnati—Weidman Co. has plans for seven-story warehouse at West Ninth St. and Mandrake Ave., N. W.

Ohio, Cleveland—Steel Products Co. has plans for plant at 2943 Parkwood Drive. Estimated cost, $30,000.

Ohio, Cleveland—Bids being received by Franz C. Warner, Hippodrome Bldg., for three-story and basement, 57x170-ft. and one-story, 54x110-ft. garage and sales building for Hudson Stuyvesant Motor Co., 1914 Euclid Ave. Estimated cost $60,000.

Ohio, Cleveland—Tropical Oil and Paint Co., Cleveland, is having plans prepared by C. W. Courtney, Leader News Bldg. for factory on West 70th St.

Ohio, Yorkville—Wheeling Steel and Iron Co., Wheeling, W. Va., will make improvements to its tin-plate plant at Yorkville.

Ind., Indianapolis—John B. Bright, Indianapolis, will build a warehouse at 113 South Meridian St. Estimated cost, $30,000.

Ind., Indianapolis—National Motor Co. will build factory at 22 and Yandes St. Estimated cost, $50,000.

Mich., Escanaba—Michigan Tanning and Extract Co. is having plans prepared for 70x900-ft. reinforced-concrete factory near Escanaba.

Ill., Chicago—Hump Hairpin Co. secured a site and will build two-story factory at Prairie Ave. and 20th St. Alfred S. Alschuler, Arch. Estimated cost, $150,000.

Ill., Chicago—William F. Pagels, 19 South La Salle St., has plans for two-story, 50x150-ft., brick warehouse at Grand Ave. and Noble St. Estimated cost, $25,000.

Wis., Hartford—Kissel Motor Car Co., Hartford, plans 75x100-ft. storage building, 70x110-ft. enameling shop and furnace room, four-story, 50x100-ft., office, 44x100-ft. shipping warehouse and two-story, 50x50-ft., body storehouse. O. P. Kissel in charge.

Wis., Wausau—Marathon Shoe Co. plans two-story, 50x120-ft., brick and concrete addition to its factory.

Iowa, Des Moines—Hippee Motor Supply Co. will build two-story, 50x132-ft., warehouse on Mulberry St. C. K. Denman, Arch. Estimated cost, $18,000.

Iowa, Des Moines—Grocers Wholesale Building Co. will build three-story, 66x132-ft., building. E. E. Pech, Mgr.

Minn., Duluth—Haynes Automobile Co. will make extensions. Estimated cost, $250,000.

Minn., Minneapolis—Borne Aëroplane Co. will build factory. Edwin N. Potter and Arthur R. Borne are interested.

Minn., Owatonna—Penhallegon Radiator Co. plans factory. William F. St. Clair, interested.

Minn., St. Paul—Theodore A. Schulze Co. will build factory on Robert St. Estimated cost, $500,000.

Minn., St. Paul—Preliminary plans being prepared for 10-story, 48x150-ft., concrete terminal elevator for Equity Co-Operative Exchange. Foltz Engineering Co., 1410 Pioneer Bldg., Arch. Estimated cost, $125,000. Noted Aug. 19.

Kan., Wichita—Shirley Jocelyn, Beacon Bldg., contemplates three-story, 50x100-ft., brick warehouse. Estimated cost $15,000.

Mo., Springfield—Press reports state Tucker, Ferguson Warehouse & Transfer Co. will build addition to its warehouse at estimated cost of $25,000. E. G. Tucker, Representative.

Tex., San Antonio—Edward Friedrich, 802 East Commerce St., will build factory at East Commerce and Pine St. Estimated cost, $60,000.

Okla., Sapulpa—International Crude Oil Storage Co. will build oil tank plant.

Colo., Pueblo—Nuckolls Packing Co. will build packing plant at estimated cost of $250,000. G. Harvey Nuckolls, Pres.

Wash., Seattle—Ford Motor Co. will enlarge assembling plant. Estimated cost, $100,000. James Couzens, Treas.

Ore., Gresham—H. M. Squires, Gresham, will build fireworks factory. Estimated cost, $40,000.

Calif., Los Angeles—American Can Co. will build 180x600-ft. factory. Estimated cost, $250,000.

Bids In and Contracts Awarded

Maine, Portland—Contract awarded to CHARLES B. HOWATT & SON, for rebuilding factory for Twitchell Champlin Co., on Commercial St. Noted Sept. 23.

Maine, Saco—Contract awarded to FRED L. EMMONS & CO., Biddeford, at $26,740, for shoe factory for Sears-Roebuck Co.

Mass., Boston—Contract awarded to FRED T. LEY CO., Springfield, for pattern shop for Mead Morrison Co., on Prescott St., East Boston. Estimated cost, $70,000.

Mass., Brockton—Contract awarded to THOMAS F. CROWELL, Brockton, at $155,000, for factory for Diamond Shoe Co. Noted Aug. 12.

R. I., Providence—Contract awarded to CRUISE & SMILEY CONSTRUCTION CO., 12 East Ave., Pawtucket, at about $12,000, for one-story, 41x101-ft., laboratory for Revere Rubber Co., Eastern Ave., Chelsea.

Conn., Hartford—Contract awarded to ROBERT PORTEUS, Hartford, at about $40,000, for factory at Franklin Ave. and Goodrich St. for Asa S. Cook Co.

Conn., New Britain—Contract awarded to B. H. HIBBARD CO., New Britain, by Hartford Auto Parts, Inc., for two-story, 60x210-ft. factory.

N. Y., New York—(Borough of Brooklyn—(Official)—Contract awarded to BORGEA CONSTRUCTION CO., 69 Mills St., Long Island City, at $11,500, for two-story, 39x100-ft. brick factory for Rosario Drago, 404 East 104th St., Manhattan, at Willow Ave. and St. Johns Pl.

N. Y., Poughkeepsie—Contract awarded to EDGAR V. ANDERSON, 39 Market St., for two-story packing plant at 38 Cottage St., for Nelson Morris & Co., 38 Cottage St. Estimated cost, $40,000.

Penn., Pittsburgh—Contract awarded to D. T. RIFFLE, for factory for Wolverine Supply & Mfg. Co., at Page and Fontella St.

Ohio, Akron—Contract awarded to W. A. FRANKLIN for two, two-story factories for Kelly-Springfield Tire & Rubber Co.

Ohio, Cincinnati—Contract awarded to JOHN LACKER by Otto Armleder Co., York Ave. near Western Ave. for commercial garage. Estimated cost, $15,000.

Wis., Beloit—Contract awarded to SCHNEIBERG & DEARHAMMER, Beloit, by Gardner Machine Co. for machine-shop addition.

Wis., Watertown—Contract awarded to F. A. WILLENBOCKEL, 507 Tenth St., Watertown, by Watertown Table Slide Co., Harp St., for one-story, 50x100-ft. shop addition.

Neb., Omaha—(Official)—Contract awarded by Ford Motor Co. to HODGEON CONSTRUCTION CO., St. Paul, Minn., for assembling plant. Noted Aug. 26.

Tex., San Benito—Contract to NYSTROM BROS., by Creamery-Dairy Co., San Antonio, for branch dairy. Estimated cost, $10,000. Noted Aug. 12.

Wash., Tacoma—Contract awarded to CORNELL BROS., Tacoma, at about $250,000, for four steel buildings for Tacoma Smelting and Refining Co.

FEDERAL GOVERNMENT WORK

Proposed Work

Flooring—Boston, Mass.—(Official)—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for reinforced-concrete floor in pattern shop, Building No. 42, United States Navy Yard.

Dredging—New London, Conn.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 2, for dredging at Naval Station, New London.

Riprap—Keansburg, N. J.—(Official)—Bids will be received by J. T. Yates, Lighthouse Inspector, Tompkinsville, N. Y., until 2 p.m., Oct. 4, for riprap bulkhead wall and making repairs to jetty at Point Comfort Light Station, Keansburg.

Post Office—East Pittsburgh, Penn.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 6, for post office at East Pittsburgh.

Riprap—Philadelphia, Penn.—Bids will be received at U. S. Engineer Office, Philadelphia, until noon, Oct. 14, for riprap in the Delaware River at Mifflin Bar Dike. (See Adv.)

Chain Shafts—Washington, D. C.—Bids will be received by A. P. Davis, Ch. Engr., U. S. Reclamation Service, Washington, D. C., until 2 p.m., Nov. 8, for chain shafts and chains for rolling crest of Grand River Diversion Dam, Grand Valley project, Colorado. (See Adv.)

Hoists—Washington, D. C.—Bids will be received until 3 p.m., Oct. 23, at the office of Chief of Engineers, U. S. Army, Washington, D. C., for 12-in. projectile hoists. (See Adv.)

Machinery—Washington, D. C.—Bids will be received by A. P. Davis, Ch. Engr., U. S. Reclamation Service, Washington, D. C., until 2 p.m., Oct. 29, for operating mechanism for two cylinder gates of 12 ft. diameter for Sherburne Reservoir, Milk River Project, Montana, and a duplicate set for Keechelus Reservoir, Yakima Project, Washington. (See Adv.)

Building—Norfolk, Va.—(Official)—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 23, for school building at St. Helena Navy Yard, Norfolk.

Hangers—Pensacola, Fla.—(Official)—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 16, for three hangers at U. S. Navy Aëronautic Station, Pensacola.

Dry-Dock Gate—Louisville, Ky.—Bids will be received at U. S. Engineer Office, Louisville, until noon, Oct. 22, for one mitering dry-dock gate of two leaves. (See Adv.)

Post Office—Merrill, Wis.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 1, for post office at Merrill.

Excavation, Etc.—St. Ignatius, Mont.—(Official)—Bids will be received by A. P. Davis, Ch. Engr., Dept. of Interior, U. S. Reclamation Service, St. Ignatius, Mont., until 3 p.m., Oct. 12, for about 10 miles of laterals and appurtenant structures, involving about 43,000 cu.yd. of excavation, 140 cu.yd. of concrete, 430 sq.yd. of paving, placing about 9,800 pounds reinforcing steel and placing in wooden structures of 32,000 ft. b. m. of lumber on east bank of Flathead River, one to seven miles northeast of Dixon.

Granary and Hay Shed—Ft. Bliss, Tex.—Bids will be received at office of Depot Quartermaster, El Paso, until 11 a.m., Oct. 27, for one granary and one hay shed at Ft. Bliss. (See Adv.)

Post Office—New Braunfels, Tex.—Bids will be received until 3 p.m., Nov. 5, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office.

Canal Work—Montrose, Colo.—(Official)—Bids will be received by A. P. Davis, Ch. Engr., Dept. of Interior, U. S. Reclamation Service, Montrose, Colo., until 4 p.m., Oct. 20, for about 11 miles of Ironstone Canal, Uncompahgre Valley project, vicinity of Olathe, Colo.

Crane—Panama—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Nov. 3, for material for a complete locomotive jib crane of 50 gross tons capacity for Dry Dock No. 1, Balboa Terminals, Balboa, Canal Zone, Panama.

Miscellaneous Supplies—Panama—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Oct. 8, for manufactured metal supplies, transformers, etc.

Miscellaneous Supplies—Panama—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Oct. 6, engine lathe, forcing press, bench filing machines, etc.

Storage Plant—Peking, China—(Official)—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 16, for ice-making and cold-storage plant at U. S. Marine Barracks, Peking, China.

Bids In and Contracts Awarded

Post Office—Gouverneur, N. Y.—Contract for post office at Gouverneur awarded to JAMES DEVAULT, Canton, Ohio, at $52,000. Noted Aug. 5 and Sept. 23.

Inlet Repairs—Cold Spring, N. J.—Contract for stone repair to Cold Spring Inlet awarded to COAST AND LAKES CONSTRUCTION CO., New York, N. Y., at $29,520. Noted Aug. 5 and Sept. 23.

Barracks—Norfolk, Va.—Bids were received at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for brick marine barracks building at Norfolk as follows: Norcross Bros. Co., Worcester, Mass., $199,800; George E. Wyne, Washington, D. C., $207,500; P. F. Gormley, Washington, D. C., $207,222. Noted Aug. 26.

Piling—Louisville, Ky.—(Official)—Bids were received at U. S. Engineer Office, Louisville, for steel sheet piling for Dam No. 43, Ohio River, as follows: Jones & Laughlin Steel Co., Pittsburgh, Penn., $37,804; Carnegie Steel Co., Pittsburgh, Penn., $34,111 (low bidder); Lackawanna Steel Co., Lackawanna, Penn., $35,791.

Post Office—Ypsilanti, Mich.—Contract for post office at Ypsilanti awarded J. S. WAHLMAN, Ishpeming, at $49,330.

Post Office—Fulton, Mo.—Contract for post office at Fulton awarded to BALKAN CONSTRUCTION CO., Monadnock Bldg., Chicago, Ill., at $46,337. Noted Aug. 5 and Sept. 16.

Revetment—Kansas City, Mo.—Contract for 13,000 lin.ft. of revetment on Missouri River awarded to KANSAS CITY BRIDGE CO., Orear-Leslie Bldg., Kansas City, at $106,340. Noted Aug. 26.

Barracks—Mare Island, Calif.—Bids were received at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for marine barracks building at Mare Island from: Pringle, Dunn & Co., San Francisco, $143,543; William A. Newsome, San Francisco, $143,387. Noted Aug. 26.

CANALS—DITCHES AND IRRIGATION

Proposed Work

Barge Canal Work—Albany, N. Y.—(Official)—Bids will be received by W. W. Witherspoon, Supt. Pub. Wks., Capitol, Albany, until noon, Oct. 26, for Terminal Contracts Nos. 20 and 50. (See adv.)

Drainage—Albany, Ill.—Bids will be received by the Commissioners of Meredosia Levee and Drainage District until 4 p.m., Oct. 14, for excavating about 86,960 cu.yd. of earth for 6½ miles of drainage ditch.

Ditch—Ada, Minn.—Bids will be received until 2 p.m., Oct. 2, by Commissioners of Norman County, Court House, for enlarging, cleaning and repairing County Ditch No. 3.

Ditch—Breckenridge, Minn.—Bids will be received by P. E. Truax, County Audr., until 10 a.m., Oct. 6, for Ditch No. 8-A, Wilkinson County. Estimated cost, $12,228.

Ditch—Breckenridge, Minn.—Bids will be received by P. E. Truax, County Audr., until 10 a.m., Oct. 12, for Ditch No. 4-A, Wilkin County. Estimated cost, $19,049.

Ditch—Fosston, Minn.—Bids will be received by O. M. Brandt, Village Recdr., until 8 p.m., Oct. 4, for clearing and deepening County Ditch No. 48.

Irrigation—Lyman, Wyo.—An irrigation project will be established near Lyman to reclaim 30,000 acres of land. Water will be secured from Black's Fork, a tributary of Green River. Joseph W. Field, Lyman, interested.

Drainage—Marion, Ark.—(Official)—Drainage bonds for $160,000 sold. Noted Sept. 16.

Drainage—Ennis, Tex.—Drainage and Levee District No. 2 voted $125,000 bonds to reclaim 12,000 acres on Trinity River from Slate Rock to cut-off.

Drainage—Victoria, Tex.—Bids will be received by Herman Fisher, Clk., Victoria County, until noon, Oct. 14, for improving Drainage Ditch No. 3. J. G. Johnson, Victoria, Engr.

Irrigation—Cimarron, N. M.—Plans being prepared by James A. French, Engr., for dam on Red River to reclaim about 20,000 acres of land. Costilla Estates Development Co., interested.

Drainage—North Yakima, Wash.—Bids will be received by Commissioners of Yakima County until Oct. 4, for drainage system in Drainage Improvement District No. 27.

Irrigation—Baker, Ore.—Baker Irrigation Ditch Co. will build reservoir, four miles long in Sumpter Valley Cañon, 15 miles south of Baker. Estimated cost, $500,000. S. S. Start, Baker, representative.

Drainage—Santa Ana, Calif.—Westminster Drainage District voted $25,000 bonds for drainage system to reclaim about 5,000 acres of land.

Drainage—Westminster, Calif.—Contract will be awarded about Jan. 1 for ditches for draining about 6,000 acres. Estimated cost, $25,000.

Bids In and Contracts Awarded

Barge Canal Work—Albany, N. Y.—Contract for Terminal Contract No. 40 awarded to J. E. BISHOP, Syracuse, at $25,515. Noted Sept. 23.

Drainage—Atlantic, Iowa—(Official)—Contracts awarded by Auditor of Cass County for Indian Creek Drainage Ditch No. 1 to LANA CONSTRUCTION CO., Council Bluffs, at 7.5c. per cu.yd. Noted Sept. 16.

Ditch—Bemidji, Minn.—Contracts for Judicial Ditch No. 31 awarded as follows: Clearing and grubbing, G. N. CLIFFORD, Minneapolis, at $7,999; excavation, RIDER & JONES, Minneapolis, at $32,676; road leveling, HARTMAN & BECK, Kelliher, at $7,565.

Ditch—Breckenridge, Minn.—Contract for Judicial Ditch No. 6 awarded to C. W. ROOD CONSTRUCTION CO., Grand Rapids, Wis. Estimated cost, $12,000. oNted Sept. 2.

Ditch—Litchfield, Minn.—Contract for Union Grove ditch awarded to NORTHERN MINNESOTA DRAINAGE CO. Work includes 13,000 cu.yd. of excavation.

Ditch—Victoria, Tex.—Contract for ditch in Drainage District No. 2 awarded to W. D. McCURDY, Lake Pacedo, at $16,000.

Irrigation—Oakdale, Calif.—Trustees of Oakdale Irrigation District awarded contract for steel pipe to WESTERN PIPE AND STEEL CO., San Francisco, at $11,114.

MISCELLANEOUS

Proposed Work

Tunnel—Boston, Mass.—Harvard Improvement Association, Dorchester, is interested in project to extend Washington St. tunnel to Dorchester and probably to Mattapan. Estimated cost, $8,000,000.

Coal Pier—Baltimore, Md.—Plans prepared for coal pier at Curtis Bay, Baltimore, for Baltimore & Ohio R.R. Estimaetd cost, $1,500,000.

Levee—Water Valley, Miss.—Board of Supervisors of Coffeeville passed resolution to join with Panola County to build levee across Yocona bottom, about five miles west of Water Valley.

Barge Line—Shreveport, La.—Election will soon be held to vote $100,000 bonds for barge line between Shreveport and New Orleans. Noted Sept. 23.

Comfort Stations—Cleveland, Ohio—Election will be held in November to vote $100,000 bonds for comfort stations.

Pavilion—Oxford, Ohio—Bids will be received by W. L. Tobey, Chn. Bldg. Com., Miami University, until Oct. 19 for pavilion.

Flood Gates—East St. Louis, Ill.—Press reports state that new flood gates will be constructed at mouth of Cahokia Creek.

Tunnel—Woodward, Iowa—Bids will be received by F. S. Treat, Secy., State Bd. Control, about Oct. 4 for tunnel at State Epileptic Farm. Estimated cost, $20,000.

Levee—Blytheville, Ark.—Board of Commissioners St. Francis Levee District voted $100,000 bonds for levee work.

Levee—South Bend, Ark.—Bids will be received until Oct. 4 by Linwood and Auburn Levee Board, Varner, for levee at South Bend. Work includes about 65,000 cu.yd. of earth. C. C. Price, Dumas, Engr.

Wharves, Docks, Etc.—Orange, Tex.—Plans being prepared for municipal slips, wharves, docks and other improvements. Noted Aug. 5.

Seawall—Port Arthur, Tex.—Preliminary plans being prepared by J. F. Coleman, Consult. Engr., New Orleans, La., for seawall at Port Arthur.

Tunnel—Seattle, Wash.—Construction of Norman St. tunnel to cost $412,590 recommended to Port Commission.

Bulkhead and Walk—Longbeach, Calif.—Plans being prepared by Charles Voorhies, Engr., 188 Montague St., New York, N. Y. (Borough of Brooklyn),, for bulkhead and walk along west beach.

Bids In and Contracts Awarded

Dredging—Barnstable, Mass.—Contract awarded to JOHN R. BURKE, 78 Devonshire St., Boston, at $8,424, for dredging in Lewis Bay.

Dredging—Waltham, Mass.—Contract for dredging in Charles River from Elm St. to Bleachery Dam awarded to JOHN R. BURKE, 78 Devonshire St., Boston, at $14,100. Noted Sept. 16.

Pier Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Department of Docks and Ferries awarded contract for pier shed at 29th St. to McHARG-BARTON CO., [illegible] Madison Ave., Borough of Manhattan.

Structural Steel—New York, N. Y.—(Borough of Brooklyn)—Public Service Commission awarded contract to PHOENIX BRIDGE CO., 49 William St. (Borough of Manhattan), for structural steel for third-tracking Myrtle Ave. elevated railroad from Broadway to Wyckoff Ave., at $[illegible] per ton.

Pier Shed—New York, N. Y.—(Borough of Manhattan)—(Official)—Contract awarded to T. J. WATERS CO., 231 West 125th St., New York, at $37,000, by Department of Docks and Ferries, for pier shed at 23d St. and North River. Noted Sept. 16.

Barge-Fuel Flats—Cincinnati, Ohio—Contract for four steel fuel flats and two steel barges for Ohio River Improvement, Cincinnati District, awarded STACEY MFG. CO., Cincinnati, at $34,848.

Elimination of Grade Crossing—Cleveland, Ohio—Contract for excavation work for Union Ave. grade crossing awarded to ROBERT GRACE CO., at $103,273; steel work, to KING BRIDGE CO., at $34,892.

Comfort Stations—Columbus, Ohio—Director of Public Service awarded contract for comfort stations to STANDARD PAVING CO., at $17,818. Noted Aug. 5.

Creek—Crystal Falls, Mich.—Bristol Mining Co. awarded contract for changing course of Briar Hill Creek to HICKS & BARBER, Vulcan.

Steamers—Galveston, Tex.—Contract for salvaging six steamers at Galveston and Texas City awarded to HENDERSON IRON WORKS, Mobile, at $272,000.

Block Signals—Oakland, Calif.—Contract for automatic block-signal system and interlocking plant for San Francisco, Oakland Terminal Rys., awarded to UNION SIGNAL CONSTRUCTION CO., Swissvale, Penn., at $36,500.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Maine, Portland—School Board revising preliminary plans for high school, and they will be redrawn by Miller & Mayo, Arch. Noted Aug. 12.

Mass., Worcester—Plans being prepared by George C. Halcott, Supt. of Pub. Bldgs., for two-story, brick ward building at Belmont Hospital. Estimated cost, $50,000.

R. I., Providence—Bids will be received until 2:15 p.m., Oct. 4, by city for police station at Wayland Ave. and Sessions St. William C. Pelkey, Clk.

Conn., New Haven—Music building will be built at Yale University as memorial to Albert Arnold Sprague, Chicago, Ill.

N. Y., New York—(Borough of Bronx)—N. Serracino, Arch., 1170 Broadway, Manhattan, prepared plans for church at East 187th St. and Tiebout Ave. for East 187th St. United Presbyterian congregation. Estimated cost, $40,000.

N. Y., New York—(Borough of Brooklyn)—Bids will be received about Nov. 1 by Park Commisison for two-story lecture hall and greenhouse extension for Brooklyn Botanic Garden. McKim, Mead & White, 101 Park Ave., New York, Arch.

N. Y., New York—(Borough of Manhattan)—Plans prepared by Berlinger & Moscowitz, 527 Fifth Ave., for temple for Mount Neboh congregation at 150th St., near Broadway. Estimated cost, $80,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Crow, Lewis & Wickenhoeffer, 200 Fifth Ave., prepared plans for 12-story, 125x125-ft. reinforced-concrete loft at 318 39th St., for 324 West 39th St. Corporation.

N. Y., New York—(Borough of Manhattan)—Plans being prepared by Joseph C. Schaeffler & Co., 38 West 32nd St., for two-story store and office building at 1604 Broadway for Fleischmann Co., 701 Washington St. Estimated cost, $50,000.

N. Y., Syracuse—Bids will be received until Oct. 4 for Delaware school at Delaware and Geddes St. D. R. Roney, Bd. of Contract and Supply. Noted Sept. 2.

N. J., Atlantic City—Bids will soon be received by M. H. Dickinson, Arch., Philadelphia, Penn., for one-story concrete and brick building for Morris Amusement Co. at Chelsea.

Penn., Philadelphia—Bids will be received about Oct. 15 for four-story, brick and marble building at 833 Market St. for Blauner & Co., Inc. Estimated cost, $110,000. Hoffman Co., Arch.

Md., Baltimore—Plans prepared by Joseph Evans Sperry, Arch., Calvert Bldg., for seven-story, 69x141-ft. Y. W. C. A. I. F. Harmon, Secy.

D. C., Washington—Marsh & Peter, 520 14th St., preparing plans for building at Tennallytown Rd and Rockville Pike for Georgetown University. A. J. Donlan, Pres. Estimated cost, $300,000.

Va., Lexington—(Official)—Bids will be received until 10 a.m., Oct. 11, by Building and Grounds Committee of Board of Visitors, Virginia Military Institute for three-story brick building for Virginia Military Institute. M. B. Corse, Secy.

Va., Roanoke—Bids will be received until Oct. 8 by Roanoke Auditorium Co. for one-story and basement, 100x200-ft. auditorium and convention hall. Estimated cost, $50,000. H. M. Miller, Roanoke, Arch.

W. Va., Triadelphia—F. F. Farris, 420 Schmulbach Bldg., Wheeling, preparing plans for two-story and basement school. Estimated cost, $125,000. S. S. Jacob, Jr., Secy., Bd. of Education.

Ga., Macon—(Official)—Bids will be received until Oct. 12 by Alfred Bellheimer, 7 East 42 St., New York, N. Y., for three-story, 84x245 ft. main station, 54x112-ft. baggage building and 54x132-ft. express building for Central of Georgia R.R. Co. Estimated cost, $1,000,000.

Ky., Louisville—Bids will be received until 3 p.m., Oct. 8, by Samuel D. Jones, Bus. Dir., Bd. of Education, for alterations and addition to Central Colored High School at Ninth and Chestnut St. J. Earl Henry, Arch.

Ohio, Akron—(Official)—Bids will soon be received for club house for Firestone Tire & Rubber Co. Building will be four-stories, 125x145-ft. Trowbridge & Ackerman, 62 West 45th St., New York, N. Y., Arch. Estimated cost, $175,000.

Ohio, Cincinnati—Louis Braudy, Pres. of Jumbo Cone Co., will build department store at Plum and Sixth St. Estimated cost, $60,000.

Ohio, Cleveland—Walker & Weeks, 1900 Euclid Ave., Cleveland, has prepared plans for two-story bank and office building at St. Clair Ave. and East 79th St., for Garfield Savings Bank. Estimated cost, $50,000.

Ohio, Columbus—Frank Packard, New Hayden Bldg., Columbus, preparing plans for eight-story office and commercial building at High and Wall St. Estimated cost, $300,000.

Ohio, Findlay—(Official)—Bonds for $100,000 have been sold by county for county infirmary building. Jean C. Copeland, County Comn. Clk. Noted Sept. 2.

Ind., Sullivan—County Council contemplates building courthouse for Sullivan County. Estimated cost, $200,000. John Mattix, Comr.

Wis., Milwaukee—Bids will be received about Oct. 15 by Frank M. Harbach., Secy., Bd. of Education, for public school on 15th Ave. Estimated cost, $80,000.

Wis., Neenah—Plans submitted by Edward Bergstrom, Arch., Los Angeles, Calif., for hotel for Merchants and Manufacturers Hotel Co. Frank J. Sensenbrenner, Pres. Estimated cost, $100,000.

Wis., Oshkosh—Bids will soon be received by State Board of Normal Regents, Madison, for normal school at Oshkosh. Estimated cost, $70,000. William Kittle, Madison, Secy.

Wis., Racine—Methodist Episcopal Conference plans church at University of Wisconsin. Estimated cost, $100,000.

Wis., Waukesha—City Council petitioned by Board of Education to appropriate $75,000 for new high school and $20,000 for grade school and $25,000 for central heating plant for three schools. J. M. Kerr, Secy.

Iowa, Waterloo—School Board plans to rebuild Hawthorne school at estimated cost of $75,000. W. H. Brunn, Secy.

Minn., Duluth—Knights of Columbus will build lodge at cond St. near Third Ave. Estimated cost, $75,000.

Minn., Minneapolis—Frank J. Mackey will build 13-story fireproof hotel on site of Hotel Nicollet.

Kan., Coffeyville—Citizens voted $55,000 bonds for improvements to schools.

Neb., Omaha—Harry Lawrie preparing plans for motion picture theater. Estimated cost, $150,000.

Wyo., Riverton—Plans being prepared for seminary for Episcopal Church of Wyoming. B. S. Thomas, Cheyenne, Bishop. Estimated cost, $100,000.

Mo., Carthage—Citizens of Jasper County voted in favor of $100,000 bond issue for sanitarium for tuberculosis patients. Noted Aug. 5.

Mo., Kansas City—Moshey Zkeniem Society contemplates home for aged. S. M. Cohen, 1425 Locust St., Representative. Estimated cost, $50,000.

Mo., St. Louis—Waterways Committee recommends municipal block. Estimated cost, $250,000.

Tex., Denison—Y. M. C. A. contemplates association building at estimated cost of $100,000.

Utah, Salt Lake City—Plans being prepared for normal and industrial building for University of Utah. Estimated cost, $55,000. J. T. Kingsbury, Pres.

Wash., Seattle—Plans being prepared for five-story, 60x120-ft., reinforced-concrete addition to Raleigh Hotel, Fourth Ave. and Pike St. for Northern Bond & Mortgage Co. Estimated cost, $75,000.

Ore., Marshfield—Plans being prepared by Houghtaling & Dougan, Portland, for three-story brick building for Elks' Lodge. Estimated cost, $60,000.

Ore., Portland—F. A. Naramore, Portland, prepared tentative plans for Benson Polytechnic School for School Board. Estimated cost, $600,000.

Calif., Santa Barbara—Presbyterian Church secured a site on Anapamu St. and will build edifice at estimated cost of $60,000. Bert Moore, C. A. Black and others, Bldg. Com.

Ont., Toronto—International Petroleum Co., Dominion Bank Bldg., will build office building. Estimated cost, $150,000. H. F. Miller, Mgr.

Bids In and Contracts Awarded

N. H., Concord—Contract awarded to HUTCHINSON BUILDING CO., at $63,650 for addition to State Hospital.

Mass., Fall River—Contract awarded to CHARLES E. CURRIER CO., 110 Summer St., Boston, at about $125,000, for hospital for Stephens Clinic Union Hospital, Fall River.

Mass., Milford—Dillon Bros., Milford, at $69,873, was low bidder for brick construction, and P. L. Sarty, Milford, at $77,727, was low bidder for granite construction, for school. Noted Aug. 5.

Conn., Greenwich—Contract awarded to J. W. BISHOP CO., New York, N. Y., for hospital at Lake and Lafayette Pl., for E. C. Benedict as a gift to city and to CALDWELL-WINGATE CO., 381 Fifth Ave., New York, N. Y., for masonry. Estimated cost, $200,000.

Conn., Hartford—Contract awarded to F. KAPLAN & SON, Hartford, at about $40,000, for apartment and store for M. S. Sheketoff.

N. Y., Binghamton—Contract awarded to BINGHAMTON BRIDGE CO., Press Bldg., by Carlton Hotel Co. for five-story hotel at 118 Chenango St. E. W. Rickerman, Perry Bldg., Arch.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to WILLIAM L. CROW CONSTRUCTION CO., 103 Park Ave., at $200,000 for 90x100-ft. church at 93d St. and Amsterdam Ave. for Central Baptist Church. Noted Aug. 12.

N. Y., New York—(Borough of Manhattan)—Contract awarded to MARMAC CONSTRUCTION CO., 316 West 30th St., Manhattan, for three-story, 65x100-ft. loft at 36 West 29th St., for Mrs. M. Aareira, 106 Sixth Ave.

N. Y., White Plains—(Official)—Contract awarded to JOHN T. BRADY & CO., 103 Park Ave., New York, at $494,740, for addition to courthouse. Noted Aug. 19.

N. J., Bayonne—(Official)—Contract will be awarded about Oct. 15 for two-story, 50x70-ft. brick building for New York Telephone Co., 15 Dey St., New York, N. Y., at Broadway and East 39th St., Bayonne H. C. Carpenter, 25 Dey St., New York, N. Y., Arch. Estimated cost, $45,000.

N. J., Englewood—Kelly Construction Co., at $130,000, was low bidder for school on Engle St. near Palisade Ave. for Board of Education.

N. J., Newark—Contract awarded to R. W. PATRICK, 100 Montclair Ave., Newark, for three-story, 50x100-ft., school at 31 Mulberry St., for St. Johns R. C. Church.

Penn., Fairview—Contract awarded to P. J. HURLEY CO., Bayside, N. Y., at about $300,000, for three buildings for Criminal Insane.

Penn., Hanover—(Official)—Contract awarded to O. H. HOSTETTER, Hanover, for high school. Noted Sept. 16.

W. Va., Beckley—Contract awarded to D. J. PHIPPS, Roanoke, Va., by Commissioners of Raleigh County for three-story, 42x80-ft. jail for county. Estimated cost, $40,000.

S. C., Columbia—Contract awarded to GEORGE W. WARING, Columbia, at $97,979, for high school.

Tenn., Nashville—Contract awarded to SOUTHERN FERRO CONCRETE CO., Atlanta, Ga., at about $125,000, for three-story office building for Nashville Property Co.

Ky., Louisville—Contract awarded to BAILEY & KOERNER, Louisville, at about $250,000, for ten-story addition to Tyler Hotel on Jefferson St. Noted Aug. 12.

Ohio, Canton—Contract awarded to J. L. VAN KIRK & SONS, Canton, at about $40,000, for chuck for First Congregational Church.

Ohio, Cincinnati—Contract awarded to J. B. SCHMIDT, Cincinnati, for remodeling Washburn and Lincoln Public School. Noted Aug. 19.

Ohio, Cincinnati—Contract awarded to WILLIAM MILLER & SON, 2023 Elm St., Cincinnati, for addition to manual training department of Oyler School. Noted Aug. 26.

Ohio, Cleveland Heights—(Warrensville post office)—Contract awarded to FATH CONSTRUCTION CO., Illuminating Bldg., Cleveland, at about $100,000, for Masonic Temple at Mayfield and Lee Rd.

Mich., Saginaw—Contract awarded to NELSON & LEWIN, 30 North La Salle St., Chicago, Ill., for Bancroft Hotel.

Ill., Peoria—Contract awarded to KUHNE & MENELEY, Rantoul and Champaign, Ill., at about $45,000 for two-story and basement brick church for Central Christian Congregation.

Wis., Milwaukee—(Official)—Contract awarded to DAHLMAN CONSTRUCTION CO., 912 Majestic Bldg., Milwaukee, for six-story building at Chicago and Milwaukee St. P. F. Leuch, City Clk. Noted Sept. 16.

Wis., Neenah—Contract awarded to FRAZIER-GRIENKE CO., Appleton, for edifice for St. Thomas Episcopal Church.

Wis., West Allis—Contract awarded to ROBERT L. REISINGER & CO., West Allis, for edifice for Holy Assumption congregation. Noted Aug. 26.

Iowa, Hudson—Contract awarded to F. W. CHAPMAN, Waterloo, at $40,000, for school for Consolidated School District.

Iowa, Iowa City—Contract awarded to CHARLES FRANKLIN, Iowa City, at $125,000, for dentistry building for University of Iowa.

Iowa, Orange City—Contract awarded to H. A. MAINE CO., Waterloo, at $40,000 for two-story brick school.

Minn., Minneapolis—Contract awarded to J. & W. A. ELLIOTT, Lumber Exchange, at about $50,000, for three-story, 43x120-ft. brick hospital at 2001 Western Ave. Noted Aug. 12 and 19.

Minn., Minneapolis—Contract awarded to PIKE & COOK, at $125,000, for addition to Ashbury Hospital.

Kan., Paola—Contract awarded to WIMMER CONSTRUCTION CO., Victoria Bldg., St. Louis, Mo., at about $70,000, for three-story, 80x87-ft., building for Ursuline Academy.

Neb., Lincoln—Contract awarded to W. J. ASSANMACHER CONSTRUCTION CO., Lincoln, at $75,000, for two-story, reinforced-concrete theater for Orpheum Theater Co.

Wyo., Cheyenne—Contract awarded to J. W. HOWARD, Cheyenne, at $140,790, for two additional wings to Wyoming State House. Noted Aug. 19.

Mo., Kansas City—Contract awarded to GEORGE L. BROWN & SON, 1300 Rialto Bldg., for home for aged for C. H. Nettleton Home Association near Swope Park, at about $90,000.

Tex., San Angelo—Contract awarded to WILLEKE BROS., at $54,176, for high school. Noted Sept. 2.

Wash., Grand Mound—Contract awarded to S. C. ERICKSON, at $49,741, for brick addition to State School for Girls. Noted Aug. 26.

Calif., Oroville—Western Building & Engineering Co., San Francisco, at $43,843, was low bidder for Hall of Records for county.

Calif., San Pedro—Contract awarded to CRESMER MFG. CO., Riverside, at $79,740, for Fifth St. school. Noted Aug. 5.

Contracts to Be Let

Bids received until Oct. 26, 1915.

Barge Canal Terminals

STATE OF NEW YORK

OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Albany, September 22nd, 1915.

NOTICE TO CONTRACTORS:—

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, October 26th, 1915, at which place and hour they will be publicly opened and read, for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, as follows:

1. TERMINAL CONTRACT NO. 20

channel to Onondaga lake, piers, dockwalls, a spillway and a highway bridge at Syracuse.

Contract plans, sheets 1 to 29.

2. TERMINAL CONTRACT NO. 50.

For grading a terminal site and approach at Holley.

Contract plans, sheets 1 and 2.

Plans may be seen and detailed specifications, engineer's estimate of quantities proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or the city of New York, issued by a national or state bank, or trust company, in good credit within the State and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WITHERSPOON,
Superintendent of Public Works.

Bids received until Oct. 12, 1915.

Water-Works Improvements and Electric Light System

Lumberton, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of Lumberton, N. C., at the Town Hall, lumberton, N. C., until 3 p.m., October 12th, for Waterworks Improvements, and for new Electric Light System.

The Waterworks Improvements consist of two concrete tub filters, brick house, concrete coagulating basin, all pipesand filter equipment, and centrifugal pumps.

The Electric Light System consists of replacing present D. C. system with about six miles of 2200/220 volt primaries and secondaries, series tungstan street light system, switchboard and transformers.

Proposals must be marked "Proposal for Waterworks," or "Proposal for Electric Light System."

Each proposal must be accompanied by a certified check for at least five per cent. of the gross amount of the bid, as an evidence of good faith.

Plans, specifications and Proposal Form may be procured from the office of the Engineer by the payment of Five Dollars ($5.00) which will be returned to those who submit regular bids accompanied by said Plans. Applicants for Plans must state the portion of the work upon which they expect to bid.

Specifications may be seen at the office of the Mayor at Lumberton, N. C., or at the office of the Engineer.

The right is reserved to reject any or all bids.

A. E. WHITE, Mayor.

Engineer: GILBERT C. WHITE, Charlotte, N. C.

Bids received until Oct. 4, 1915.

Steel Bridge

OFFICE OF BOARD OF COMMISSIONERS

Greenville, Pitt County, N. C.

Sealed proposals for a small Steel Bridge, wood floor with concrete abutments on piling will be received by the Commissioners, at their office in the Pitt County Court House, on Monday, October 4, 1915, and there publicly opened.

Plans and Specifications may be obtained from the Clerk of said Board or W. C. Dresbach, Civil Engineer, Greenville, N. C., by leaving a deposit of $2.00, for their return in good condition.

A certified check for 5% of the bid must accompany each proposal as an evidence of good faith, same to be returned to bidder.

The successful Bidder will be required to furnish a satisfactory Bond in the sum of 40% per cent. of the cost of the Bridge for the true performance of the Contract and Specifications.

The right is reserved to reject any or all Bids and to award the Contract upon other considerations than that of price alone.

This, the 25th day of September, 1915.

BRASCOE BELL, Clerk,
Board of Comrs. of Pitt County, Greenville, N. C.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 21, 1915.—Sealed proposals will be opened in this office at 3 p.m., November 1, 1915, for the construction complete (including mechanical equipment and approaches) of the United States post office at Merrill, Wis. Two-story-and-basement building; ground area, 5,244 square feet; fireproof construction. Drawings and specifications may be obtained from the custodian of site at Merrill, Wis., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Construction News

PRICE CHANGES AND THE BUSINESS OUTLOOK

The long-waited-for business improvement which the present Administration has been promising for so long seems as if it is to be forthcoming. Conditions at this time in almost every line are better than for the past year. The railroads are ordering new equipment and are very short of freight cars, which is one of the best indications we have of a general movement in all lines. Building conditions leave much to be desired, particularly in the field of residences and private plants, but this is more than made up by the big amount of business being done in the steel line and all products being used by the Allies.

The successful outcome of the $500,000,000 loan to the Allies gives us an opportunity of getting rid of our surplus in all lines, which would have been a serious matter if it had not been floated. Exports for the past year show that the Allies used over $800,000,000 worth of actual necessities from this country, and if the loan had not been put through the rate of foreign exchange probably would have dropped to such a degree that it would have been almost prohibitive for the Allies to continue purchasing here.

The money situation around New York City is very easy. Domestic trade and industry as well as import and export activities are on such a restricted basis that supplies of funds are altogether in excess of requirements. Arrangements for funds have been made for six months as low as 3%. The crop situation in the West has not affected Eastern money as much as usual, as the Western banks have been so well supplied that they have not found it necessary to call on New York for their balances or advances.

The iron and steel trade are turning out as much stuff as it seems possible to do. The railroads are working on their 1916 requirements for rails, and a great many of them have already placed their orders. Among others, the New York Central has closed for about 120,000 tons. The plate mills are figuring on 12,000 to 15,000 cars for the railroads, besides which the Pressed Steel Car Co. is now filling an order for Russia for 7,000 cars. Shipbuilding seems to be picking up, as pretty nearly all the large concerns are now figuring on jobs which will take from 3,000 to 5,000 tons each besides orders already on hand. The Pittsburgh district reports that the general position of the steel mills is that they have shipping orders in hand for more than one-half of their maximum output to Jan. 1, with orders coming in at a rate fully equal to current shipments, which means that they are assured of being busy for months to come.

This activity in the steel market of course reflects its influence on the pig-iron market. This is shown by the highest price quoted for pig iron for the past two years. Not since the war first started have there been as many rumors as at present of a great variety and number of proposed deals for new industrial combinations and for additions to plant capacity, based upon the large profits growing out of war orders. Practically all of the leading iron and steel companies in the country have been mentioned in connection with some merger or other. In some cases, the stories have been used as a basis for advancing stock prices, and in others have been offered as an explanation for the advance.

The Federal Reserve Board made a report for the last thirty days for their twelve districts showing an improvement in nine of them. Only Philadelphia reflected a pessimistic outlook. The New York district seemed to have a better outlook for fall and winter trade than any of the other districts.

New York City building permits for August, 1915, just about doubled over August of a year ago, with an increase of over $3,500,000. New York State failures decreased 57 in number over a year ago, with $22,000,000 less liabilities. All of these figures tend to show improved conditions. Subway work in New York City is very nearly all under way, about $160,000,000 worth of contracts having been let, which leaves a balance of about $4,000,000 to be let some time in the near future. Some time this month bids will be opened for 80,000 tons of steel. On Oct. 15 the Commission will open bids for the supply of frogs and switches for all new lines, and on the 26th for finished work for stations on the different lines, which will require about 40,000 tons of steel.

Estimates of the crops throughout both the country and the world show that we are having the largest yield ever reported. Figures given by experts show about 600,000,000 more bushels of various grains than last year.

We will have something over 400,000,000 bushels of wheat to sell abroad, provided our credit is arranged soon enough, so that it can be sold before the other countries which have a proportionate increase in crops this year get a chance to market theirs. With this large increase, prices will naturally be lower than last year, but still should net the farmer a good profit.

The brick market seems to be better than for some little time in the past, the market having been pretty nearly cleaned out during the last few days. There has been a small advance in price, with prospect of a further increase. The cement market does not seem to be as steady as a month ago, prices being a little lower, with more cutting by the smaller concerns.

CEMENT, LIME AND BRICK

Brick—During the month the market advanced and declined practically every week. Though no very heavy sales are reported, conditions since last month have improved. At this writing, manufacturers report that further advance is due to take place very shortly. Prices show a decided advance over last month, the following being asked: Hudson River brick, $6.50 to $7; Raritan, $6. These prices are wholesale at the dock, New York.

Portland Cement—Business during the month continues fair although some of the larger manufacturers complain because of the price-cutting done in some territories. In some sections the prices have advanced and are as follows:

Chicago	$1.41	Toledo	$1.34
Pittsburgh	1.41	Milwaukee	1.38
Cleveland	1.45	Minneapolis	1.48
Detroit	1.32	St. Paul	1.48
Indianapolis	1.34	Duluth	1.51
Jersey City	1.06	Peoria	1.29
New York	1.12	Cedar Rapids	1.40
Boston	1.27	Davenport	1.30

The above prices are exclusive of package and are for carload lots, f.o.b. cars at places named. In New York to contractors the price is $1.57, Jersey City $1.51, and at Boston $1.72. These prices are for cargo lots and include the charge for bags.

To dealers, manufacturers quote as follows: In cloth bags f.o.b. Jersey City, $1.46; alongside dock, New York, $1.52; Boston, $1.67.

Labor—On account of the lack of emigration to this country, there is very little supply and a consequent large demand for unskilled labor. Local agencies report that it is almost impossible to get men to go out of town for less than $2 for an 8-hr. day and they are very hard to pick up at this price as there are plenty of opportunities in New York City. There seems to be very little call for experienced men in the building-trades line, and the supply far exceeds the demand. Experienced machine-shop men are almost impossible to obtain without paying a large price, and these are very scarce.

Crushed Stone—Although no decided improvement has been shown in the market, quotations are higher than they were a month ago, and dealers are enabled to maintain a firmer stand. On fair-size contracts calling for immediate shipment for 1½-in. crushed stone the price ranges from 75 to 80c. On ¾-in., 85 to 90c. is asked. Quotations for future shipment are not given for publication, due to the fact that higher prices may be demanded, and dealers do not like to be bound by low-figure contracts. The Public Service awarded two contracts during the month calling for about 300,000 cu.yd. of material. Another contract requiring about 80,000 cu.yd. of traprock of hard limestone which had been awarded on the advice of the engineers, the Commission decided to readvertise the contract, bids for which will be opened on Oct. 15.

Sand and Gravel—Business conditions are very good around New York City, dealers having no complaints to make. Sand is quoted at 45c. per cu.yd., some dealers asking only 40c. Gravel prices are as follows: Subway, 95c. per cu.yd., and paving gravel at 75c. per cu.yd. These quotations are for full cargo lots of 500 cu.yd. delivered alongside of dock New York.

IRON AND STEEL

Pig Iron—The buying of pig iron during the month has been considered very fair, and in practically all districts there have been advances in the price. On future deliveries there is a decided tendency to increase the price, and buyers entering the market now are facing these increased charges. During the latter half of the month, more interest was taken in the purchase of malleable and other irons for the making of railroad supplies. More inquiries are appearing each week for foreign shipments, and some fair-sized orders have developed as a result. In Pittsburgh, buying has not been as heavy as might be expected, but nevertheless prices have shown a slight advance. Bessemer iron is quoted at $16.95 and basic is now $15.95. The above quotations include the freight charges from the valley to the Pittsburgh district. In Cincinnati, prices remain stationary as follows: Cincinnati Southern Foundry No. 2, $14.40 to $15.40; Cincinnati Northern Foundry No. 2, $15.76 to $16.01; Cincinnati Northern Foundry No. 3, $15.51 to $15.76. In New York business has been fair during the month and prices are a little stiffer as follows: Northern Foundry No. 2, plain is $15.75 to $16.00, and No. 2X $16.25 to $16.50. In the Chicago districts, prices have advanced for the last month, and the market is apparently very much stronger. Prices following are f.o.b. furnace, and for switching charge the average is 50c. per ton. Northern Foundry No. 1 is $14.75 to $15.25, and Northern Foundry No. 2 is $14.25 to $14.75. In Birmingham, prices have advanced $1 per ton, and the present situation evidently points to a further increase. For spot and 1916 delivery, f.o.b. furnaces the price for Southern Foundry No. 2 is $12 to $12.50; No. 1 Southern Foundry is selling at $12.50 to $13.

Steel Rails—Very active buying has been noticed in the rail market, and practically all the principal companies have entered orders for fair tonnages and makers look forward to a heavier demand during the coming year. Some railroads are endeavoring to place contracts for delivery late in the year 1916. There has been some foreign demand for light rails, also considerable interest has been shown by the coal-mine operators for these sections. Railroad companies, not yet in the market, are busy working on specifications, and manufacturers are figuring on reserved rolling space. It is estimated that the bookings of the Steel Corporation for the month of September in steel rails amount to somewhere in the neighborhood of 150,000 tons. Quotations, however, are without change, and for lots of 1,000 tons or over, prices are as follows: Standard sections of bessemer, $28; openhearth, $30;

both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40; in 60-ft. lengths, $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, prices given in cents per lb., are as follows: Standard sections bessemer, $1.25; openhearth, $1.34; light rails are quoted as follows: 25- to 45-lb. sections, $1.25; 16- to 20-lb., $1.30; 12- to 14-lb., $1.35; 8- to 10-lb., $1.40. These are for carload or larger lots. An advance of 5c. per 100 lb. is charged for less than carload lots.

Track Supplies—Inquiries are now appearing from many of the railroads for furnishing spikes. Although business has not been as good as might be expected, manufacturers look to a brighter future, and due to the advanced prices of steel, quotations on this material were well maintained during the month. Spikes are now quoted at $1.60 per keg. This is for standard railroad sizes f.o.b. Pittsburgh, small railroad and boat spikes being held at $1.70 per 100 lb. f.o.b. Pittsburgh. Track bolts and square nuts are quoted at $2.10 in carload lots; standard section angle bars are quoted at $1.50 base f.o.b. Pittsburgh. Track bolts at Chicago are quoted at $2.10 to $2.25, and tie plates at $30 to $32.

Plates—Manufacturers report that they are booking more orders and are eagerly looking toward more work in the future. Some business is being placed by the car manufacturers and the government has opened bids for some plate shapes for naval improvement at the different navy yards. Although some makers claim to have made sales at lower figures than are generally quoted, prices show an advance of $1 per ton and are quoted $1.40 at the mill, Pittsburgh. This is equivalent to $1.439 in Chicago. In this city delivery of plates from stock is charged at the rate of $1.85 per 100 lb. Philadelphia is $1.509 to $1.559, New York $1.569. From store the price is $2.05 to $2.10.

Structural Material—A more steady flow of business is apparent and manufacturers are trying to hold to a more steady price. No large size orders are conspicuous, but in general small orders are being turned in with more regularity. Industrial plants are still constructing additions and prices are based on $1.40 Pittsburgh, and at this rate prices in various districts are well maintained. This includes I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., T's, 3 in. and over. Cutting to specified lengths is charged at the following rates: 2 to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft. In Philadelphia the base price is $1.559. Small lots of stock are selling at least $1 or $2 per ton higher. In New York the base price is $1.559. Small lots are quoted at $2.05, $2.10 from store. In Chicago the delivery from mill is $1.639 and from stock $1.90. In San Francisco the base price is $2. All these quotations are per 100 lb.

Pipe—Although prices remain the same as a month ago, on very desirable orders discounts are very often shaded. This holds especially true for the galvanized material. It is believed that the manufacturers are not operating to over 65% of capacity. For carload lots f.o.b. Pittsburgh, the following discounts hold:

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	63½%
2½- to 6-in. steel, lap welded	78%	62½%
7- to 12-in. steel, lap welded	76%	58½%

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in	2.43	4.19	5-in	32.56	55.50
1-in	3.57	6.20	6-in	42.24	72.00
1¼-in	4.83	8.39	7-in	57.12	98.77
1½-in	5.77	10.03	8-in	60.00	$1.03
2-in	7.77	12.55	9-in	82.80	1.43
2½-in	12.87	21.93	10-in	98.99	1.70
3-in	16.83	28.68	11-in	$1.11	1.92
4-in	23.98	40.87	12-in	1.21	2.10

Sheets—The market for sheets is rather fair. The demand in general is only moderate, although from the electrical companies the buying has been a little heavier than usual. It has also been noticed that the demand for blue annealed is more active. In galvanized sheet consumers do not appear to be laying in a supply, and the reason for this seems to be that they are worried over the price of spelter. The quotations below are for large lots of sheets f.o.b. Pittsburgh and small lots from stores in New York.

	Cents per Pound—Large Lots Pittsburgh Black	Large Lots Pittsburgh Galv.	Warehouse Delivery New York Black	Warehouse Delivery New York Galv.
No. 10	1.55	2.60	2.20	....
No. 12	1.55	2.70	2.25	4.15
No. 14	1.60	2.70	2.30	4.15
No. 16	1.65	2.80	2.40	4.25
Nos. 16 and 20	1.70	2.90	2.50	4.60
Nos. 22 and 24	1.75	3.15	2.55	4.55
No. 26	1.80	3.30	2.60	4.70
No. 27	1.85	3.45	2.65	4.90
No. 28	1.90	3.60	2.70	5.00

Cast-Iron Pipe—Prices are well maintained and show a slight advance over last month. Quite a few inquiries are being received, but actual orders and contracts are not being placed in any great number. In New York prices have advanced one dollar and are quotable as follows: On 6-in. Class B and heavier, $24.50 to $25 per net ton tidewater in carload lots; Class A, $25.50 to $26; the latter price also applying to gas pipe. Although in the Birmingham district the prices advanced 50c. per ton, the market is rather dull. Quotations f.o.b. yard are as follows: 4-in., $22; 6-in. and upward, $20; on gas pipe one dollar per ton is added. In Chicago few orders of any importance can be found. Northern prices are stronger and have advanced one dollar per ton. The following are the quotations per net ton, Chicago: 4-in. pipe, $27; 6-in. and larger, $25; for Class A water pipe and gas pipe one dollar extra is added.

Steel Sheet Piling—Conditions are the same as a month ago and prices remain steady at $1.55 to $1.60 per 100 lb. f.o.b. Pittsburgh.

Old Material—On heavy melting steel scrap the transactions toward the end of the month were not so heavy. In some instances prices have shown a slight advance over last month and are apparently very firmly held. It is to be noted, however, that no evidence of real weakness is apparent, although consumers are holding off in an effort to secure lower prices. Dealers in New York furnish the following quotations:

	Per Gross Ton
Heavy-melting steel scrap	$12.25 to $12.50
No. 1 railroad wrought	14.00 to 14.50
Stove plate	9.75 to 10.00
No. 1 machinery cast	12.75 to 13.00
Wrought turnings	8.00 to 8.50
Cast borings	8.00 to 8.50
Railroad malleable cast	10.00 to 10.50
No. 2 heavy cast	11.75 to 12.00

In Chicago very little activity is discernible. Sellers of stock seem very anxious to dispose of it as soon as possible and such being the case the market is held back to a certain extent. Due to the lack of interest some prices have fallen off a little, others remaining practically the same during the month. The following prices hold good in this territory:

	Per Gross Ton
Heavy-melting steel scrap	$11.75 to $12.25
	Per Net Ton
No. 1 railroad wrought	$11.00 to $11.50
No. 2 railroad wrought	10.50 to 10.75
No. 1 cash scrap	10.00 to 10.50
Pipes and flues	9.80 to 9.00
Agricultural malleable	9.00 to 9.50
Railroad malleable	10.25 to 10.75
Cast borings	6.50 to 7.00

Chain—More orders are now appearing, and manufacturers report a heavier volume of business than over the same period last month. Prices, however, remain steady and without change as follows: These prices are per 100 lb. f.o.b. Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	$3.00
¼ in.	4.95	⅝ and ¾ in.	2.90
⅝ in.	3.95	¾ and ⅞ in.	2.80
⅜ in.	3.40	⅞ and 1 in.	2.70
⅛ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
5/16-in. and ¼-in.	$1.50	$2.00
⅜-in. and larger	1.25	1.75

Wire Rope—The demand still continues good and the prices remain unchanged from last month. On galvanized the discount is 40 and 5% off list. On bright it is 55 and 5%; special brand brights are selling at 50 and 5% off list. At these discounts, the net price of wire rope at the mills is as follows:

Diameter in Inches	Price per Foot—Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, inculding plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.: Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 73.9.

Merchant Steel—A considerable amount of business was transacted during the month, and in some shapes quotations have advanced. Prices as given below hold very firm, and some dealers hold the opinion that they will be increased very shortly. Below are general base prices for small lots from jobbers' stores:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	2.00
1½ to 4 in. x ⅜ to 1 in.	2.00
1½ to 4 in. x ¼ to ⅜ in.	2.20
Norway bars	4.00
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	2.05
1 to 6 in. x ¾ to 1 in.	2.05
1 to 6 in. x ¼ and ⅜	2.20
Rods—⅝ and ¾ in.	2.15
Bands—1½ to 6x ¼ in. to No. 8	2.25
Beams and channels—3 to 15 in.	2.10

Angles:

3 in. x ¼ in. and larger	2.10
3 in. x ⅜ in. and ⅛ in.	2.55
3 in. x ⅜ in. and thicker	2.20
1½ to 2¾ in. x ⅜ in. and thicker	2.30
1½ to 2½ in. x ⅛ in.	2.30
1 to 1¼ in. x ⅜ in.	2.30
1 to 1¼ in. x ⅛ in.	2.35

Tees:

1½ to 2½ x ¼ in.	2.25
1½ to 2½ x ⅛ in.	2.35
2 in. and larger	2.20

Triangle Mesh—Demand continues fair. During the month there was a general revision in price, the following quotations now being effective:

PRICE PER 100 SQ.FT.

Style No.	Cross-Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	$0.102	$1.05	$1.16	$1.27	$1.38
5	0.077	0.83	0.92	1.00	1.09
6	0.058	0.66	0.73	0.80	0.86
†7	0.041	0.51	0.57	0.62	0.67
†23	0.170	1.76	1.94	2.12	2.30
24	0.142	1.52	1.67	1.83	1.98
25	0.124	1.35	1.49	1.62	1.76
†26	0.110	1.23	1.35	1.48	1.60
†27	0.085	1.00	1.11	1.21	1.31
28	0.066	0.83	0.92	1.00	1.09
29	0.049	0.69	0.76	0.83	0.90
31	0.261	2.60	2.86	3.13	3.39
32	0.225	2.25	2.48	2.71	2.94
33	0.196	2.01	2.21	2.42	2.62
34	0.140	1.54	1.70	1.86	2.02
35	0.109	1.23	1.35	1.48	1.60
36	0.075	0.91	1.00	1.09	1.18
38	0.380	3.70	4.08	4.45	4.83
†39	0.325	3.19	3.51	3.85	4.16
40	0.283	2.79	3.08	3.36	3.65
41	0.208	2.13	2.35	2.57	2.78
42	0.151	1.62	1.78	1.95	2.11
43	0.101	1.15	1.27	1.39	1.50

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—Business is very brisk in this line. The mills will only accept orders with a promise for a three- to four-months' delivery under 2 in., and over a 2-in. bar they will not promise anything unless they happen to have it in their warehouses. No orders will be accepted for future delivery only at the mills' convenience. The mills report that everybody for the past year has been holding back on buying until at the present time all dealers are running short and are attempting to fill their stocks at once, which is almost impossible. The market is very strong, both in Pittsburgh and in the New York district, and the mills look for no let-up for months to come. Prices are as follows:

	Cents per Pound—Mill Shipments Pittsburgh	Cents per Pound—F.o.b. Warehouse* Pittsburgh	Cents per Pound—Delivered From Warehouse New York
⅜ in. and longer	1.40	2.05	2.05 to 2.10
⅝ in. and longer	1.45	2.10	2.10 to 2.15
½ in. and longer	1.50	2.25	2.25 to 2.30
⅝ in. and longer	1.65	2.35	2.35 to 2.40
¼ in. and longer	1.90	2.70	2.70 to 2.75

*Bars from warehouse are cut to desired lengths without extra charge. These prices are for carload lots.

Expanded Metal Lath—Business is very good in this line, and mills do not seem to be affected as in some other lines connected with the building trade.

Prices are as follows:

Gage	Weight	Carload	1,000 to 5,000	Under 1,000
27	240	$11.00	$12.00	$13.00
26	260	12.00	13.00	14.00
25	300	13.00	14.00	15.00
24	350	14.00	15.00	16.00

These prices are f.o.b. Pittsburgh.

METALS

Copper—The market during the entire month was very weak, and the price remained rather fixed at the low level of 18c. Domestic demands were very light and the few transactions reported show very clearly that consumers do not appear anxious to lay in any supply. For the latter part of the month one large factor cut down production to almost a minimum. Mines are working at a record-breaking point and production far exceeds the consumption. Buying by the foreign powers still continues and it is reported that France and England will soon be in the market for a goodly supply. The price for electrolytic is firmly held at 18c. for cash and 18¼c. for thirty days, delivered.

Tin—The market is clearly disappointing. It has been announced that deliveries for the month of September only totaled 4,300 tons for both Atlantic and Pacific ports. Prices rose and fell during the month, the general tendency of sellers being to hold to a fixed price of 32½c. During the last week prices strengthened, the market being held at 33¼c. Buyers, however, show little interest in the market and the present quotation remains at 33c. With the completion of the British-French loan tin dealers look very hopefully for improvement.

Lead—At the beginning of the month lead opened at 4.9c. per lb., but buying was so limited and in such small quantities that it soon dropped to 4½c. At the end of the month buyers were a little more active, but the demand failed to bring an advance in price. However, the present quotation is more firm, and stronger buying is expected to develop in European markets. Production is so far in excess of demand that dealers are very anxious to find an outlet for their supply.

Spelter—At the beginning of the month the market opened with a fixed price of 15c. per lb., but rapidly dropped and throughout the month remained at 14c. There were occasional flurries in the demand, but the amount of business failed to prompt dealers to advance the price. Toward the latter part of the month there appeared to be an easier tone to the market, due to the offering of speculative blocks. For last quarter deliveries quotations are 13½c., but at this figure very little business is being booked. Ordinary grades of prime western are now selling at 14c. per lb.

Old Metals—The market might be said to be up and down during the month. At times the buyers showed keen interest, then again they would not appear in the market. Toward the end of the month more business was done, and prices were well maintained as follows:

	Cents per Pound
Copper, heavy cut and crucible	15.00
Copper, heavy and wire	14.75
Copper, light and bottoms	12.50
Heavy machine composition	11.50
Brass, heavy	10.00
Brass, light	8.50
No. 1 yellow brass turnings	11.50
No. 1 composition turnings	10.50
Lead, heavy	3.50
Tea lead	3.25
Zinc scrap	8.00

The above are dealers' purchasing prices in New York.

MISCELLANEOUS

Sewer Pipe—With the arrival of fall there is a fair amount of work appearing, and dealers anticipate that conditions will require a considerable supply of this material. Discounts, however, are the same as a month ago, but are more firmly held. On 3- to 24-in., 82% off list is quoted; 27- to 30-in., 72%; 30- to 36-in., 67%. At this rate, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

Flue Lining—While the demand for this material for immediate use is not prevalent, yet some contractors realize that the present quotation is exceptionally low, and are laying in a supply in anticipation of an improvement. Prices have decreased a little since last month, and the present quotation is 83% off list. At this discount, prices are as follows:

FLUE LINING—PRICE PER FOOT

Size in In.	Weight in Lb.	Price per Ft.	Size in In.	Weight in Lb.	Price per Ft.
4½ x 8½	14	$0.06	8½ x 13	28	$0.114
4½ x 13	20	0.076	8½ x 18	45	0.153
4½ x 18	40	0.17	13 x 13	38	0.144
7 x 7	15	0.068	13 x 18	57	0.204
8½ x 8½	18	0.076	18 x 18	75	0.34

Bluestone—The sellers do not appear very optimistic over the amount of business appearing, and although the demand continues fair, in general conditions are not as good as a year ago; especially in the City of New York is this noticeable. Subway construction probably has tended to postpone a great many street improvements. Prices are well maintained, and although there may be a little cut on very desirable contracts, the following are general: Bronx flagging, 17c. per sq.ft.; Manhattan, 18c. per sq.ft. Curbing, 5x16 in., 40c. per lin.ft.; 5x20 in., 45c. Sewer bottoms, 5x5 ft. by 3 in., sell at 25c. per sq.ft. Belgian bridging, 5x24 in., is 65c. per lin.ft.

Railway Ties—There is very little business in this line at present, not as much as there was a month ago. All of the railroads are carrying a good stock of railway ties on hand for repair work and there is practically no new work being done. There have been a great many inquiries from foreign countries for railway ties, but up to date, as far as is known, no orders have been placed. Freight rates are a little bit lower than they have been; however, prices are about the same as they were last month. First-class standard ties, 7x9 in. by 8 ft. 6 in. sell at 73c.; 6x8 in. by 8 ft. at 61c., these prices being f.o.b. New York.

Asphaltum—A steady volume of business was felt throughout the month, and the same continued call existed for Mexican asphalt petroleum. Prices, however, remain unchanged, and in packages f.o.b. refinery sheet paving asphalt is quoted at $13 to $15 per ton.

Swedish (Norway) Iron—Supplies are all limited to small lots, and dealers are selling the same at very fancy prices. On all sides there is keen competition and dealers are making every effort to gather any quantity obtainable. Due to such unsettled conditions, quotations have been withdrawn.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maryland—Surveys made by Baltimore & Ohio Ry. Co. for line from Hagerstown to Security, about four miles. J. B. Ferguson & Co., Surveyor. F. L. Stuart, Baltimore, Ch. Engr. Noted Aug. 12.

North Carolina—Directors of Hiawassee Valley Ry. Co. authorized sale of $125,000 bonds for completion of line from Andrews to Haynesville, via Peachtree, about 25 miles. S. E. Cover, interested.

North Carolina—Surveys made for line from Lillington to Swansboro by Central Carolina Ry. Co. W. J. Edwards, Sanford, interested.

North Carolina—Kinston Belt Line Co. has been incorporated with $25,000 capital by J. T. Deal and G. V. Cowper, Kinston, and others to build steam belt-line and electric car line in Kinston.

North Carolina—Seaboard Air Line Ry. Co. plans revision of line and grades between Sanford and Apex. Estimated cost, $200,000. H. C. Pearce, Norfolk, Va., Pur. Agt.

Virginia—See item under Kentucky.

West Virginia—Coal & Coke Ry. Co. contemplates yards at Charleston. R. H. Pembroke, Gassaway, Ch. Engr.

Georgia—Georgia Southern and Florida Ry. Co. will build yard near Cordele. Estimated cost, $25,000. J. B. Munson, Macon, Vice-Pres. and Gen. Mgr.

Georgia—Savannah & Northwestern Ry. Co., according to press reports, is having surveys made for extension of its line from St. Clair to either Thomson, Camak or Norwild, about 30 miles. L. B. Ackerman, Savannah, Ch. Engr.

Alabama—Railway will be built from Andalusia, Ala., to Munson, Fla., about 30 miles. C. K. Lawrence, Savannah, Ga., Ch. Mgr. Central of Georgia Ry. Co., interested.

Mississippi—Reports state Guy M. Walker, New York, N. Y., has purchased McComb Electric Light & Power Co. through S. M. Jones, Laurel, Miss. He contemplates railway from McComb to Summit, Fernwood and Magnolia.

Kentucky—Queen & Crescent Ry. will double-track its line from Somerset to Flat Rock. Surveys have been made for double-tracking from Tateville to Greenwood.

Kentucky—Kentucky & Virginia Ry. subsidiary of Louisville & Nashville Ry., is making surveys for extension from Benham, Ky., to Norton, Va.

Indiana—Lake Erie & Western Ry. Co. plans to spend $50,000 for extension of its yards at Tifton. A. H. Smith, New York, N. Y., Pres.

Illinois—Hillsboro, Synthiana, Bainbridge & Chillicothe Traction Co. plans electric railway between Hillsboro and Chillicothe, about 42 miles.

Wisconsin—Bonds for $75,000 for railway from Etterisk to Blair, about 10 miles, voted by citizens.

Nebraska—Missouri Pacific Ry Co., recently incorporated, will build main line and three branch lines in Nebraska. C. H. Smith, Wayne, Engr.

South Dakota—South Dakota Short Line Ry. Co. recently incorporated with $2,000,000 capital by C. W. Adams, Council Bluffs, Iowa and others, will build line from Mitchell to Pierre.

Wyoming—Colorado, Wyoming & Eastern Ry. is making preliminary arrangements for extension of its line from Northgate to Elk River then to Yampa River. J. M. Herbert, Laramie, Pres.

Missouri—St. Louis, Iron Mountain & Southern Ry. Co. plans improvement of roadbed between Mollisster, Mo., and Bergman, Ark. Estimated cost, $35,000. E. A. Hadley, St. Louis, Ch. Engr.

Arkansas—Press reports state Missouri Pacific Ry. Co. will make improvements to White River division. Estimated cost, $500,000. E. A. Hadley, St. Louis, Mo., Ch. Engr.

Arkansas—Surveys will be made for electric line from Guion to Melbourne. A. C. Veach, Gravette, promotor. Noted July 29.

Colorado—Union Pacific Ry. Co. plans extension of Wyoming & Eastern Ry. Co. from Coalmont to Steamboat Springs. E. E. Adams, New York, N. Y., Consult Engr.

Washington—Lucerne & Aurelia Crown Co. having survey made for line from Lucerne to Aurelia Crown mines, about 16 miles. O. Robert Dahl, Box 187, Seattle, Pres.

California—Press reports state San Francisco will let contract in two months for construction of 67 miles of railway for Hetch-Hetchy reservoir. M. M. O'Shaughnessy, City Engr. Estimated cost, $1,800,000.

California—Union Lumber Co. plans logging road from Ft. Bragg to Ten Mile River, about 10 miles. C. R. Johnson, Crocker Bldg., San Francisco, Pres.

California—California R.R. Commission ordered Atchison, Topeka & Santa Fé Ry. to build branch from Temecula to Oceanside. E. P. Ripley, Pres.

California—Franchise granted to Tidewater & Southern Ry. Co. for railway through Ceres. J. H. Wallace, Stockton, Ch. Engr. Noted Aug. 5.

Ontario—Ontario Hydro-Electric Commission, Toronto, petitioned by Durham and Northumberland Counties to report on advisability of building electric railway from Peterborough through Campbellford, Seymour, Percy, Alwick, Haldimand and Hamilton Townships to Cobourg.

Ontario—Township Council of Harwick asked Provincial Hydro-Electric Commission, Toronto, Ont., to submit estimate of cost of electric railway between Blenheim and Cedar Springs. G. W. Riseborough, Blenheim, Clk.

Bids In and Contracts Awarded

Virginia—Southern Ry. Co., Washington, D. C., awarded contracts for railway construction as follows: Sycamore to Gretna, four miles to HALL-CRAWFORD CONSTRUCTION CO., Macon, Ga.; Whittles to Dry Fork, nine miles to ROBERT RUSSELL, Danville, Va., and from Arrowhead to Elma, 20 miles to W. W. BOXLEY CO., Roanoke.

Virginia—Contract awarded to J. C. CARPENTER & [illegible]SON BROS., Clifton Forge by Chesapeake & Ohio Ry. [illegible] for double-tracking line between Greenlee and Balcony [illegible]

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Fredonia—Public Service Commission received application from Niagara & Erie Power Co. for permission to build transmission lines and operate franchises in towns of Sheridan, Pomfret, Portland and Brant and village of Farnham.

N. Y., Rochester—City Council contemplates extending street lighting system.

N. Y., Troy—Plans being prepared for power plant at mill of J. B. Hurst.

N. J., Cape May—Citizens voted bonds for electric-light plant.

N. J., East Orange—City Council plans to improve street lighting system on Central Ave.

Penn., Milton—Election will soon be held to vote to install municipal electric-light plant in Milton.

N. C., Burnsville—Yancey Light & Power Co. contemplates hydro-electric plant. Estimated cost, $16,000.

Ga., Atlanta—Atlanta Electric & Ice Co. has acquired plant of municipal water works and will operate same for five years. Company plans to install new equipment in electric-light and power plant and water works.

Ga., Graymont—Citizens voted $5,000 bonds for electric-lighting system.

Ga., Toccoa—City will build power plant on Toccoa Creek.

La., Colfax—Power plant of Big Pine Lumber Co., recently destroyed by fire, will be rebuilt. New equipment will be required.

Tenn., Henderson—Citizens voted $13,000 bonds for equipment for electric-light plant.

Tenn., Tullahoma—Cumberland Springs Co. plans electric-light plant and other improvements.

Ohio, Lorain—Election will be held in November to vote $350,000 bonds for municipal electric-light plant.

Ohio, Marietta—Election will be held in November to vote $45,000 bond issue for municipal electric-light plant.

Ohio, Martins Ferry—City plans to extend service of municipal electric-light plant to Rotherermund addition.

Ohio, Toledo—Bids will be received by A. M. Stowe, Pres., Bd. of Directors, Toledo University, until noon, Oct. 9, for steam heating and ventilating systems for present building and an addition at Illinois and 11th St.

Mich., Three Rivers—Bids will be received by the city until Oct. 21, for electric-light plant and water system. Plans and specifications may be obtained from Eugene A. Schall, City Clk., or G. Champs and F. H. Froelich, Engrs., National Bank Bldg., Toledo, Ohio.

Mich., Wyandotte—Citizens defeated $30,000 bond issue for municipal electric light plant. Noted Aug. 12.

Ill., Galesburg—Election will soon be held to vote $100,000 bonds for improving electric-light plant.

Ill., Mt. Carmel—Plans being considered by Mt. Carmel Public Utility & Service Co. to extend service to Allendale and St. Francisville.

Wis., Oak Center—According to press reports electric-lighting system in Oak Center is under consideration.

Iowa, Clermont—C. Miller & Sons plans to increase the capacity of its electric-light plant. Estimated cost, $20,000.

Iowa, Kanawha—Election will be held Oct. 20 to vote to construct municipal electric-light plant.

Iowa, Marengo—Iowa Electric Co. plans transmission line for the conducting of electricity.

Iowa, Mondamin—Press reports state that transmission line from Mondamin to Missouri Valley to supply electricity in Modale and Mondamin is contemplated.

Kan., Bucklin—Citizens contemplate $10,000 bond issue for improving electric-lighting system.

Kan., Wichita—Kansas Gas & Electric Co. plans an expenditure of $1,800,000 for improving its properties in Wichita, Pittsburgh and on Independence and eastern Kansas interests.

Neb., Blair—Bids will be received by S. W. Chambers, City Clk., until Oct. 15, for electric-light plant. Estimated cost, $34,000. Martz Engineering Co., Lincoln, Engr. Noted Aug. 19.

Nebr., Fremont—City Council plans to extend electric-lighting system to Lee-Hall addition.

Neb., Norfolk—Plans being prepared by Martz Engineering Co., Lincoln, for improving heating system at State Hospital for Insane.

N. D., Ryder—Construction of electric-light plant in Ryder contemplated by local business men.

Mo., Drexel—City will equip electric plant at Drexel. About $8,000 worth of machinery will be required.

N. M., Mogollon—Earle C. Cleveland plans electric-power plant on Willow Creek.

Tex., Celeste—Local electric-light plant of T. J. Vines & Sons, recently destroyed by fire, will be rebuilt.

Idaho, Blackfoot—F. V. Riley, C. E., Idaho Falls, submitted plan to City Council to install electric-light plant in Blackfoot.

Utah, Salt Lake City—Bids will be received by James Paxton, Clk., Bd. of Education, until 7:30 p.m., Oct. 11, for heating and ventilating system in high school at 14th and 15th St.

Ariz., Tucson—Election to issue $100,000 bonds to complete municipal electric-lighting system contemplated by City Council.

Wash., Colfax—Work will soon be started on substation for Washington Water Power Co.

Ore., **Eugene**—Water Board has authorized an auxiliary electric plant. Estimated cost, $50,000.

Calif., **Martinez**—Board of Supervisors received application from Great Western Power Co. of San Francisco for permission to extend its transmission lines from Martinez through Port Costa to Crockett, and from Concord to Walnut Creek.

Ont., **Crediton**—Town Council contemplates installation of electric-lighting and power distribution system.

Bids In and Contracts Awarded

Kan., **Marion**—Contract for power house awarded to V. BAUER & SON, Horton. Noted Sept. 16.

Neb., **Broken Bow**—Contract awarded to ALAMO ENGINE AND SUPPLY CO., Omaha, at $15,954, for water and electric-light systems. Noted Aug. 26.

Neb., **Wisner**—Contract for heating and plumbing in new Wisner School awarded to WESTERN HEATING & PLUMBING CO., Omaha, at $7,280.

Mont., **Plentywood**—Contract for new electric light and power plant for Plentywood Electric Co. awarded to SHERIDAN ELECTRIC CO.

Mo., **Kansas City**—Contracts for electrical work at new St. Joseph Hospital awarded as follows: Electric wiring, including wiring for power plant to F. E. NEWBERRY ELECTRIC CO., St. Louis, at $18,000; one 150-kw., four valve unit and one 100-kw., single valve generator, 220/110 volts, three wire, direct current to RIDGWAY DYNAMO & ENGINE CO., Ridgway, Penn., at $9,000; switchboards to WILLIAM MURDOCK ELECTRIC CO., St. Louis, at $2,100.

Que., **Quebec City**—Quebec Streams Commission awarded contract for power dam on St. Francis River to GEORGE MADDEN, Quebec, at $101,000.

BRIDGES

Proposed Work

Conn., Shelton—Plans being prepared by C. J. Bennett, State Highway Comr., Hartford, for bridge across Housatonic River between Shelton and Derby.

N. J., Newark—Board of Freeholders of Essex County plans to issue $50,000 bonds, part of which will be used for new approach span to Belleville turnpike bridge.

N. J., Paterson—Bids being received by Board of Freeholders of Passaic County for widening Hope Ave. bridge, Clifton. Estimated cost, $5,500.

Penn., Beaver Springs—Philadelphia & Reading Ry. Co. has plans for steel girder bridge across Susquehanna River at Beaver Springs. Estimated cost, $300,000.

Penn., York—Bids will be received by F. S. Bartenschlager, County Controller, until Oct. 14, for stone arch bridge over Bennett's Run, Newberry Township, and reinforced-concrete arch bridge over west branch of Codorus Creek.

Va., Lynchburg—Plans being prepared by B. N. Davis, Consult. Engr., 17 Battery Pl., New York, N. Y., for bridge across James River.

Ga., Rome—Citizens voted $225,000 bonds for three bridges in Floyd County.

Fla., Miami—Citizens voted to issue bonds for paving, bridges, hospital and channel across bay. Noted Aug. 19.

Ala., Mobile—Bids will be received until 10 a.m., Oct. 11, for wooden bridge.

Ala., Mt. Vernon—Bids will be received by O. A. Alvarez, Clk., County Revenue and Road Commissioners, Mobile, until 10 a.m., Oct. 11, for bridge across Cedar Creek near Mt. Vernon.

Tenn., Chattanooga—Press reports state that Southern Ry. plans bridge over tracks at Oak St. Estimated cost, $12,000.

Ohio, Columbus—(Official)—Bids will be received by John Scott, Clk., Bd. of Commissioners of Franklin County, until noon, Oct. 25, for county bridge construction.

Ohio, Dayton—(Official)—Bids will be received by H. E. Wall, City Acct., until noon, Oct. 11, for the sale of $338,000 bonds for replacing bridges over Miami and Mad Rivers. Noted Sept. 9.

Ind., Lebanon—Bids will be received by Commissioners of Boone County until 10 a.m., Oct. 18, for two reinforced-concrete bridges and repairing of another.

Ind., Martinsville—(Official)—Bids will be received until 2 p.m., Oct. 11, by S. Welton, Audr., Morgan County, for constructing and repairing a number of bridges.

Ill., Ottawa—Board of Supervisors of La Salle County plans bridge across Illinois River at Shippensport. Estimated cost, $140,000.

Ill, Rockford—(Official)—Bids will be received until 1 p.m., Oct. 29, by A. R. Carter, County Supt. of Highways, Courthouse, for bridge in Rockton Township, Winnebago County.

Iowa, Waukon—Bids will be received by Auditor of Allamakee County, until noon, Oct. 12, for steel superstructures for one 80-ft. two 100-ft. and 140-ft. bridge.

Minn., Montgomery—Bids will be received until 1 p.m., Oct. 18, by John Hickey, Town Clk., for two road bridges, Montgomery Township.

Minn., New London—Bids will be received until 3 p.m., Oct. 18, by A. A. Skele, Township Clk., for bridge across Crow River between Sections 8 and 17, Township 121, Range 34.

Kan., Abilene—Commissioners of Dickinson County plan an expenditure of about $7,000 for bridge repairs.

Kan., Columbus—An expenditure of $8,000 contemplated by County Commissioners for repairing a number of bridges.

Kan., Concordia—County plans expenditure of $15,000 for eight reinforced-concrete bridges and repairing four steel bridges.

Kan., Wichita—Edgar V. Moore, Engr., Sedgewick County, preparing plans for four reinforced-concrete bridges for county.

Mo., Carthage—Bids will be received by Hugh McIndoe, Mayor, until Oct. 9, for sale of $30,000 bonds for viaduct.

Mo., Hillsboro—Election will be held in Jefferson County to vote $500,000 bonds for bridges and roads.

Mo., Joplin—Bids will be received by C. A. Robinson, Coms. of Revenue, until Oct. 9, for sale of $13,500 bonds for North Main St. viaduct.

Mo., St. Louis—Contract will soon be awarded for Chouteau Ave. viaduct.

Tex., Houston—(Official)—Bids will be received until 10 a.m., Oct. 11, by H. L. Washburn, County Audr., for two bridges on Humble and River Rd.

N. M., Roswell—Bids will be received until Oct. 11 by Board of County Commissioners of Chaves County for public highway bridge over the Rio Feliz near Hagerman.

Idaho, Boise—A bridge across Snake River at Grandview is contemplated by County Commissioners. Estimated cost, $5,000.

Idaho, Parma—Press reports state that bridge across Boise River at Parma contemplated. Estimated cost, $17,000.

Ariz., Florence—Commissioners of Pinal County contemplate two concrete bridges across the Gila River near Winkleman. Estimated cost of each $30,000.

Calif., Bloomfield—Bids will be received until Oct. 13 by Board of Supervisors of Sonoma County, Santa Rosa, for concrete bridge near Bloomfield.

Calif., Eureka—Bids will be received by County Supervisors until Oct. 13, for bridge at Field's Landing and culvert near Beatrice.

Calif, Grimes—Board of Supervisors of Sutter and Colusa Counties plan bridge across Sacramento River at Grimes. Estimated cost, $150,000.

Calif., Imperial—An appropriation of $27,500 made by Board of Supervisors of Imperial County for bridges.

Calif., Madera—(Official)—Bids will be received by W. C. Utter, City Clk., until 8 p.m., Oct. 18, for bridge across Fresno River. Estimated cost, $10,500. Noted Sept. 23.

Calif., Modesto—Board of Supervisors provided a fund of $85,000 for bridges over Tuolumne River at Modesto.

Calif., San Bernardino—A new bridge across Mojave River between Victorville and Hesperia planned by County Supervisors.

Calif., Ventura—Bids will soon be received by County Board of Supervisors for La Crosse bridge. Estimated cost, $10,000.

Calif., Visalia—Bids will be received until Oct. 13 by City Clk. for concrete bridge across Mill St.

Ont., Niagara Falls—According to press reports Canadian Northern Ry. plans to build bridge at Niagara Falls.

Bids In and Contracts Awarded

Mass., Norfolk—Contract for bridge in Lawrence St. awarded to JOHN McCOURT CO. Noted Aug. 19.

R. I., Providence—(Official)—Contract for steel work of Randall St. Bridge awarded to LOUIS F. SHOEMAKER & CO., Pottstown, Penn., at $4,869. Noted Sept. 9 and 23.

Conn., Bristol—Contract for bridge over Pequabuck River awarded to PIERSON ENGINEERING CO., Hartford. Noted Sept. 2.

N. Y., Binghamton—Bids were received by Board of Contract and Supply for bridges as follows: Bridge over Pierce Creek at Conklin Ave., Michael Barber, $5,500; Owego Concrete Co., $5,500; Water St. Bridge, Foster Construction Co., $8,458; Eldridge St. Bridge, Foster Construction Co., $12,975. Noted Aug. 26.

Penn., Harrisburg—(Official)—Contract for bridge in Shippen Township, Cameron County, awarded to FARRIER ENGINEERING CO., Pittsburgh, at $4,888, and bridge in Davidson Township, Sullivan County, to WHITTAKER & DIEHL, Harrisburg, at $4,258. Noted Sept. 23.

Penn., Phoenixville—Bids were received by Commissioners of Montgomery County, Norristown, for bridge across Schuylkill River between Phoenixville and Mont Clare as follows: B. A. Sheeler, Potstown, $63,440; Ferre Concrete Co., Harrisburg, $55,400, and C. M. Heed Co., Pittsburgh, $92,800. Noted Sept. 23.

Ga., Macon—Contract of steel viaduct from Bay to Third St. for Central of Georgia Ry. awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., at about $90,000.

Ind., Hammond—Contract for temporary bridge and permanent structure over Grand Calumet River at Calumet Ave. awarded to PHEE BROS., Chicago, at $72,500.

Ill., Edwardsville—Contract for bridge over Cahokia Creek for Illinois Central R.R. awarded to DECATUR BRIDGE & IRON CO., at $8,000.

Wis., Eau Claire—Contract for bridge on Menomonie St. awarded to STEIN CONSTRUCTION CO., Medford, at $5,477.

Wis., Green Bay—Contract for bridge over East River at Pleasant St. awarded to GRELLING BROS., Green Bay. Noted July 29.

Iowa, Carroll—Contract for bridge and culvert awarded awarded to PICKUS ENGINEERING AND CONSTRUCTION CO., Sioux City, at about $14,000.

Iowa, Harlan—Contract for eight steel bridges in Shelby County awarded to DES MOINES BRIDGE AND IRON WORKS, Des Moines, at $15,500.

Iowa, Red Oak—Contract for bridge across river at Grant awarded to RED OAK BRIDGE AND IRON WORKS, Red Oak, at $6,400.

Kan., Leavenworth—Contract for 21 bridges awarded to LEAVENWORTH BRIDGE CO., at $18,397, and two bridges to J. S. WARD, at $5,735.

Neb., Tekamah—(Official)—Contract for bridges awarded to MINNEAPOLIS STEEL AND MACHINE CO., Minneapolis, Minn., at $14,500. Noted Sept. 9.

S. D., Canton—Contract for bridge across Big Sioux River awarded to DES MOINES BRIDGE AND IRON WORKS.

Mo., St. Louis—Contract for bridge on Olive St. Rd. awarded to MILLER & BORCHERDING, St. Louis, at $4,800.

Ark., Ashdown—Contract for 16 concrete bridges awarded to MILLER & CALDWELL, Texarkana.

Tex., Estelline—Contract for bridge across Red River awarded to AUSTIN BROS., Dallas, at $13,000.

Tex., Orange—Contract for bridge across inter-costal canal near Orange awarded to BLODGETT CONSTRUCTION CO., Galveston.

Okla., Cherokee—Contract for bridge across Salt Fork awarded to KANSAS CITY BRIDGE CO., Kansas City, Mo., at $7,963.

Okla., Claremore—Contract for bridge for Rogers County awarded to R. W. CANFIELD, at $17,900.

Okla., Henryetta—Contract for six steel bridges awarded to MISSOURI VALLEY BRIDGE CO., Kansas City, Mo., at $13,544.

Calif., Fairfield—Contract for bridge on State Highway from Yolo to Solano County awarded to CLINTON FIRE-PROOFING CO., San Francisco, at $30,500.

Calif., Los Angeles—Contract for bridge over Rio Hondo at Garvey Ave. awarded to F. W. STEFFGEN, 116 East Ninth St., Los Angeles, at $4,343.

Calif., Templeton—Contract for concrete bridge over Paso Robles Creek near Templeton awarded to GUTLEBEN BROS., San Francisco, at $11,773.

Calif., San José—Contract for reinforced-concrete bridge across Guadalupe Creek awarded to M. KILCOURSE, San José, at $6,850.

Man., Headingly—Contract for bridge over Assiniboine River awarded to BUCHANAN & CO., 408 Builders' Exchange, Winnipeg.

WATER-WORKS

Proposed Work

Maine, Newport—Newport Water Co. plans reservoir on Stuart Hill and pump station. G. M. Barrows, Supt.

R. I., Providence—Frank E. Winser, Providence, appointed Chief Engineer of proposed new water system. Work will include storage reservoir, dam, water shed, filter beds, etc. Estimated cost, $12,000,000.

Conn., Wethersfield—Fire District No. 2 has been created. Hartford Water Works Co. will install water mains.

N. Y., New York—(Official)—Bids will be received by Board of Water Supply, Municipal Bldg., until 11 a.m., Oct. 19, for two steel frame buildings for drainage chambers, Shafts 11 and 21, Catskill Aqueduct, under Contract No. 166. (See Adv.)

N. Y., Niagara Falls—Bonds for $38,000 sold for extension of water mains.

N. Y., Waterloo—Citizens contemplate dam across outlet of Junius Pond for municipal water supply.

N. J., Wildwood—Citizens voted to purchase plant of Wildwood Water-Works Co. and plan to improve same.

Penn., Punxsutawney—City plans municipal water system. E. W. Hess, Clearfield, Borough Engr.

Penn., Ringtown—Election will be held Nov. 2 to vote $12,100 for municipal water system.

Penn., Waynesboro—Waynesboro Water Co. contemplates new reservoir.

Va., Mineral—City plans water system and electric-light plant.

N. C. Asheville—Bee Tree watershed taken over by city. Improvements costing $20,000 contemplated.

N. C., Hertford—Bids will be received until Oct. 12 by City Clk., for water and sewer systems. J. B. McCrary Co., Atlanta, Ga., Engr.

N. C., Wilson—Bonds for $170,000 sold. Proceeds will be used for water system, paving and gas plant. Noted Sept. 16 and 23.

S. C., Orangeburg—City plans to improve and enlarge water system and electric-light plant. Estimated cost, $50,000. Edward Hawes, Jr., City Engr.

Ga., Atlanta—Election to vote $750,000 bonds for improving water system postponed until next year. Noted Aug. 5 and 19.

Ga., Atlanta—Press reports state that approximately 9,000 ft. of 8-in. water main from city limits to park at Lakewood will be laid by city. Estimated cost, $74,000.

Ga., Helene—Citizens voted $8,000 bonds for water system. Noted Sept. 9.

Ga., Wadley—City will build water system. T. B. Johnson, Mayor.

La., Opelousas—City plans to issue bonds for water system.

Tenn., Knoxville—City plans to issue $500,000 bonds for pumping plant and other improvements.

Ohio, Athens—Citizens will vote on $50,000 bonds for extension to water system.

Ohio, East Youngstown—(Official)—Bids will be received until Dec. 1 by Carl R. Anderson, Village Clk., for water system. Estimated cost, $165,000. Noted Sept. 23.

Ohio, Tiffin—Concrete dam will be constructed by Tiffin Water Works Co. next year. Noted Sept. 2.

Ind., Shelbyville—Interstate Public Service Co. will replace 4-in. mains with 6-in. main and install 8- and 10-in. mains.

Ind., Van Buren—Bids will be received until 2 p.m., Oct. 21, by Town of Van Buren, for c.-i. pipe and pumping equipment. (See Adv.)

Mich., Three Rivers—Bids will be received until 1 p.m., Oct. 21, by E. A. Schall, City Clk., for water and electric-light systems.

Ill., North Chicago—Installation of filtration plant under consideration. Estimated cost, $20,000.

Ill., Poplar Grove—Bids will be received by R. S. Greene, Clk., Village Board of Trustees, until Oct. 12, for brick and stone pumping station.

Wis., Brodhead—Plans being prepared by W. G. Kirchhoffer, Engr., 31 Vroman Bldg., Madison, for head gates.

Attica, Kan.—Bids will be received by J. C. McCaddon, City Engr., until Oct. 14, for water and electric-light systems. Estimated cost, $30,000. E. T. Archer Co., Kansas City, Mo., Engr. Noted Sept. 2 and 9.

Neb., Broken Bow—See item under "Light, Heat and Power."

Ark., Argenta—City Council will issue $500,000 bonds to purchase plant of Arkansas Water Co. and to improve and enlarge same.

Ark., Beebe—Plans prepared by Lund & Hill, Engr., Southern Trust Bldg., Little Rock, Ark., for water system. Estimated cost, $15,000.

Ark., Morrillton—Water & Electric-Light systems of Morrillton sold to Arkansas Light & Power Co., Arkadelphia, who plan to improve same.

Tex., Galveston—(Official)—Bids will be received by John D. Kelley, City Secy., until Oct. 14, for reconstructing 36-in. submerged water main. Noted Sept. 23.

Tex., Slaton—Bonds for $10,000 voted for water system.

Okla., Grove—Contract will soon be awarded for extension of water system. Bonds for $10,000 sold for this purpose. Noted Aug. 5 and Sept. 9.

Colo., Akron—Election will be held Oct. 19 to vote $20,000 bonds for water system.

N. M., Carlsbad—Bids will be received until Oct. 12 for improving water system. Estimated cost, $60,000.

Idaho, Aberdeen—Citizens contemplate municipal water system.

Idaho, Bonner's Ferry—Bonner's Light and Water Co. plans new water system on North Side. Estimated cost between $12,000 and $15,000.

Idaho, Twin Falls—Public Utilities Commission petitioned by City Council for permission to install municipal water system.

Wash., Colville—New water system contemplated by City Council.

Wash., Raymond—City Council plans to extend water system up South Fork River. Estimated cost, $100,000.

Wash., Seattle—Plans for water mains in Dexter Ave. submitted to Board of Public Works. A. H. Dimock, City Engr. Estimated cost, $32,000. Noted Sept. 30.

Ore., Baker—(Official)—Election will be held Nov. 11 to vote $110,000 bonds for improving water system. L. R. Stockman, City Engr. Noted Sept. 23.

Ore., Milwaukee—Contract will soon be awarded for completion of municipal water system. Noted July 29 and Sept. 9.

Calif., San Francisco—City plans to extend high-pressure service system. About $17,000 available for this purpose.

Ont., Dundas—City will extend water system. Estimated cost, $25,000.

Bids In and Contract Awarded

Maine, Anson—Contract for water system awarded to HANSCOM CONSTRUCTION CO., 70 Kilby St., Boston, Mass. Estimated cost, $35,000.

N. C., Ayden—Contract for water system awarded to J. B. McCRARY CO., Atlanta. Noted Sept. 2.

Ky., Covington—L. Eid Concrete and Steel Co., at $23,030 for one line and $29,446 for two line, was low bidder for excavation for duplicate supply main for Licking River. Noted Sept. 30.

Ohio, Medina—Contract awarded to LYNN & CAHOON, Akron, at $7,884, for extensions to water system. Noted Sept. 16.

Ohio, Oberlin—Contract for reservoir awarded to POWER CONSTRUCTION CO., Cleveland, at $6,833. Noted Aug. 12 and Sept. 9.

Ill., Dundee—Contract for new east side reservoir awarded to LOGAN & GIERTZ, Elgin.

Ill., St. Charles—Contract awarded to H. B. HALLET, Aurora, at $12,113, for extensions to water mains. Noted Aug. 19.

Wis., Monticello—Contract for water system awarded to J. N. ROBERTS, Madison. Noted Sept. 2.

Iowa, Urbana—Contract awarded to DES MOINES BRIDGE & IRON CO., Des Moines, at $5,735, for water system. Noted Sept. 16.

Minn., Carlton—Pastorette Co., Duluth, submitted lowest bid for water system. Noted Sept. 9 and 16.

Minn., Virginia—(Official)—Contract for mixed pressure steam turbine awarded to GENERAL ELECTRIC CO., Chicago, Ill., at $29,200. Noted Aug. 26.

S. D., Gayville—Contract awarded to ELLERMAN, McLAIN CONSTRUCTION CO., Yankton, at $5,577, for water system. Noted Sept. 9.

N. D., Fargo—(Official)—Contract for 1,160 ft. of water main awarded to C. H. PORRITT, Fargo, at $1.15 per ft. F. L. Anders, Engr. Noted Sept. 23.

Mont., Whitehall—(Official)—Contract for water and sewer systems awarded to INDEPENDENT CONTRACTING CO., Bozeman, at $26,013. G. E. Baker, City Engr. Noted Sept. 2.

Mo., Fayette—See item under "Sewers."

Colo., Orchard City—Contract for water system awarded to BUTTERFIELD & MOYNIHAN, Montrose, at $45,000.

Utah, Myton—Contract awarded to J. C. LYMAN, 722 Sixth Ave., Salt Lake City, at $10,350, for water system. Noted Sept. 9.

Ont., Ottawa—(Official)—Low bids for overland pipe work submitted as follows: Pipe, Laurin & Leitch, Montreal, Que., $194,100; specials—42-in., Victoria Foundry Co., Ottawa, $12,455; valves—42-in., General Supply Co., Ottawa, $14,518; pipe trench and laying pipe, Thomas McLaughlin, $63,514; pumps (2) Boving Hydraulic & Engineering Co., Montreal, Que., $10,900 and $15,600 respectively. Noted July 29.

SEWERS

Proposed Work

Mass., Boston—Plans being prepared for automatic pumping station for South End. Estimated cost, $400,000.

Mass., Boston—(Official)—Bids will be received until noon, Oct. 8, by Edward F. Murphy, Comr. of Pub. Wks., for pipe sewers and drains in Lithgow and Patterson St., Dorchester District.

Mass., Boston—(Official)—Bids will be received until noon, Oct. 11, by Edward F. Murphy, Comr. of Pub. Wks., for pipe sewers and drains in Ripley Rd. and Harwood St., Dorchester District.

Mass., New Bedford—City Council has authorized expenditure of $65,000 for intercepting sewers. William F. Williams, City Engr.

R. I., Providence—(Official)—Bids will be received until 2:15 p.m., Oct. 11, by Board of Contract and Supply, for sewers in various streets. Noted Sept. 30.

N. Y., Canadaigua—Board of Public Works will extend sewer system in North Main St.

N. J., Hightstown—Election will be held to vote on $15,000 bonds for water and sewer extensions.

N. J., Seaside Park—(Official)—All bids received Sept. 24 for sewers and sewage-disposal plant have been rejected. New bids will be received until 8 p.m., Oct. 18. Remington & Vosburg, Market St., Camden, Engr. Noted Sept. 16.

N. J., Toms River—Citizens contemplate sewer system.

Md., Baltimore—Sand bed and concrete channel will be built at sewage-disposal plant under Sanitary Contract No. 163. Charles England, Chn. Sewerage Comrs.

Va., Richmond—City Council asked to appropriate $188,915 for completion of sewer system in Manchester district.

N. C., Albermarle—Bids will be received until Oct. 15 by M. J. Harris, Mayor, for sewer system. Anderson & Christie, Charlotte, Engr. Noted Aug. 26.

N. C., Hertford—Bids will be received until Oct. 12 by city for sewer and water system. J. B. McCrary Co., Atlanta, Ga., Engr.

Ga., Atlanta—Bond election to be held Sept. 16 to vote $3,358,000 for municipal improvements postponed until spring. Noted Aug. 12.

Ga., Helena—Bonds for $12,000 voted by citizens for sewer system.

Fla., Jacksonville—Citizens voted to issue $500,000 bonds for sewers.

Tenn., North Chattanooga—(Official)—Bonds for $50,000 for sewer work sold. H. W. Longley, Town Clk. Noted Sept. 23.

Ohio, Cheviot—Bids will be received until Oct. 13 by Albert J. Heusing, Village Clk., for trunk sewer in ravine east of Glenmore Ave., in North Glenmore Ave.

Ohio, Cuyahoga Falls—Election will be held Nov. 2 to vote on $60,000 bonds for sewage-disposal plant.

Ohio, Dayton—(Official)—Bids will be received until noon, Oct. 11, by Hugh E. Wall, City Accountant, for purchase of $40,000 sewer bonds for sanitary sewers in Dist. No. 6.

Ohio, East Liverpool—City Council authorized sanitary sewers in various streets.

Ohio, Mt. Vernon—A. A. Graham, Mt. Vernon, at $11,129, submitted the lowest bid for sanitary sewer in Adams St.

Ohio, Port Clinton—Frank Mannello, Pittsburgh, at $6,952, submitted the lowest bid for sewers in District No. 4.

Ill., Chicago—Bids will be received by John McGillen, Clk., Sanitary District, until noon, Oct. 21, for Section 13 and 14, Calumet Sag Channel.

Ill., Roseville—Village Board retained engineer to prepare plans for a sewer system.

Ill., West Chicago—Construction of sewer system under consideration by City Council.

Wis., Appleton—Bids will be received until 9 a.m., Oct. 10, E. L. Williams, City Clk., for sewers in Richmond St.

Wis., Ashland—Bids will be received until Oct. 14 by W. V. Morris, City Clk., for sewers in various streets. Conrad J. Wadak, City Engr. Noted Sept. 16.

Iowa, Council Bluffs—Bids will be received until Oct. 11 by Charles J. Duff, City Clk., for sewers.

Iowa, Des Moines—(Official)—Bids will be received until 9 a.m., Oct. 13, by Horace Susong, City Clk., for sewer work in various streets.

Iowa, Lisbon—All bids received for sewer system rejected. New bids will be received. T. R. Warriner, Dows Bldg., Cedar Rapids, Engr. Noted Sept. 30.

Iowa, Muscatine—Citizens contemplate sanitary sewer in Mad Creek district. Charles Young, City Engr.

Iowa, Oakland—Bids will soon be received for sewer system. Noted Sept. 30.

Minn., Buhl—Bonds for $70,000 sold. Part of proceeds will be used for sewers.

Neb., Bridgeport—(Official)—Bids will soon be received for about 10,800 ft. of 8-in. vitrified clay lateral sewers. F. A. Roland, 402 Nebraska State Blk. Bldg., Lincoln, Engr.

Neb., Loup City—Plans being prepared by J. Wolf, City Engr., for sewer system. Estimated cost, $10,000.

N. D., Willow City—Board of Regents has authorized improvements to sewer system.

Mo., Cape Girardeau—Surveys made for outlet sewer. Estimated cost, $150,000. Christopher Stiver, City Engr.

Mo., St. Joseph—Citizens defeated bond issue for $1,048,000, for sewers, fire department, parks, electric lights, street improvements, reservoir, garbage disposal, work house, city hospital and asphalt plant.

Tex., Marlin—Citizens voted $120,000 bonds, part of which will be used for sewers.

Tex., San Benito—City will build sewage-disposal plant. V. M. Ehlers, Austin, State Engr.

Okla., Cushing—Benham Engineering Co., Oklahoma City, preparing plans for intercepting sewers in various streets. Estimated cost, $30,000. Noted Sept. 30.

Colo., Hugo—Council has created sanitary sewer district No. 1. Estimated cost of sewers, $12,000. J. C. Halloway, City Clk.

Ore., Portland—Plans will soon be completed for reconstruction of lower end of Tanner Creek trunk sewer. Estimated cost, $50,000.

Calif., Compton—Bids will be received until Oct. 12 by City Clerk, for sewer system. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, Engr.

Calif., Pittsburg—Bids will soon be received by Town Trustees for sewer in East Third St.

Calif., Willow—Plans being prepared for sewers in new improvement district. Estimated cost, $20,000. John R. Ryan, Engr.

B. C., Esquimalt—Citizens plan enlarging sewer system in residential sections.

Bids In and Contracts Awarded

N. Y., Brockport—(Official)—Contract awarded to SUBURBAN ENGINEERING CO., 15 West 38th St., New York, at $21,206, for sewage disposal plant. Noted Sept. 16.

N. Y., New York—(Borough of Queens)—(Official)—Bids were received Sept. 30 for sewers under Contract No. 1, 2, 3, 4, 5, 6, 7 and 8. Low bidders are as follows: Joseph L. Sigretto, 20 Curtis Ave., Richmond Hill, N. Y., $57,720 (1); Green Contracting Co., 292 Fifth Ave., Brooklyn, $22,847, (2); James H. Johnson, Beekman & Cliff St., New York, $15,755, (5); Green Contracting Co., $5,810, (4); J. J. Long & Co., 757 Lexington Ave., New York, $360, (5); Evergreen Construction Co., $135, (6); Peace Bros., $155, (7); and Joseph L. Sigretto, $8,787, (8). Noted Sept. 23.

N. Y., New York—(Borough of Richmond)—(Official)—Bids were received Sept. 28 by Calvin D. Van Name, Borough Pres., for sewage-disposal plant as follows: O'Brien & Fleming, 109 Broad St., Manhattan, $4,374; J. E. Donovan, $4,832 and Joseph Johnson Sons, $4,445. Low bidder for outlet sewers at Taylor St., A. M. Hazell, 90 West St., Manhattan, $2,939. Noted Sept. 23.

N. J., Newark—William G. Sharwell & Co. has abandoned its contract for superstructure for pumping station for Passaic Valley Sewerage Commission, because of mistake in figuring its bid. Noted Sept. 23.

N. C., Ayden—Contract awarded to J. B. McCRARY CO., Atlanta, Ga., at about $15,000, for sewer system. Noted Sept. 2.

Ohio, Norwood—Contract awarded to JOHN DEMPSEY, Norwood, at $7,500, for sewer in Lexington Ave.

Ohio, Toledo—(Official)—Contract awarded to THOMAS J. KELLY, Toledo, for local sanitary sewer No. 12 in Subdistrict No. 1. Noted Sept. 16.

Ind., Princeton—Contract awarded to JOHN L. NEWMAN, Evansville, at $6,126, for sanitary sewer system. Noted Sept. 23.

Mich., Ann Arbor—(Official)—Contracts awarded by Board of Public Works to WILLIAM EDDY & SON, Saginaw, at $3,248 for sewer work in District No. 68, and at $8,955 for Glenn Ave. sewer; to THOMAS JOYCE, Kokomo, Ind., at $205 for District No. 69, $390 for District No. 70, at $217 for District No. 71, and $10,500 for District No. 72. Noted Sept. 16.

Ill., Marion—Contract awarded to HOEFFKEN BROS. CONSTRUCTION AND SUPPLY CO., at $7,267, for sewage-disposal plant.

Wis., Appleton—All bids received Sept. 23 for sewers rejected.

Wis., Kenosha—Contract awarded to JAMES KENNEDY, Fargo, N. D., at about $250,000, for sewers in various streets. Noted Sept. 9.

Wis., Oconomowoc—Contract awarded to A. J. HEWITT, Milwaukee, at $7,000, for sewer and water mains.

Iowa, Ames—Contract awarded to DEARBORN CONSTRUCTION CO., Waterloo, at $24,788 and $13,961 for two sanitary sewers and at $28,937, for storm water sewer. J. T. Wickam, Ames., Engr.

Iowa, Muscatine—Contracts for sewers awarded to WINBERGER & KINSLEY, Mucatine, and INDEPENDENT CONSTRUCTION CO., Davenport, at $1,870 and $4,647 respectively.

Iowa, Webster City—Contract awarded to ZITTERELL & SULLIVAN for sewers in Webster, Broadway and Wauneta Court.

Minn., Eveleth—Contract awarded to LAWRENCE McCANN CO., at $12,000, by City Council for sewer extensions.

Minn., Excelsior—Contract awarded to GRAND FORKS CONCRETE CO., Grand Forks, N. D., for storm sewers. Noted Sept. 9.

Minn., Lyle—(Official)—Contract awarded to WILLIAM DANFORTH, Hackney Bldg., St. Paul, at $14,500, for sewer work. Noted Sept. 16.

Minn., Osakis—Contract awarded to O. C. EVENSON, for septic tank for sewer system.

Minn., St. Paul—(Official)—Contract awarded to O'NEIL & PRESTON, St. Paul, at $24,645, for sanitary sewer system. A. Hohrustein, Pur. Agt. Noted Sept. 23.

Neb., Wayne—Contract awarded to GEORGE L. VLASNIK for sanitary sewer in District No. 4.

Mont., Whitemall—(Official)—Contract awarded to INDEPENDENT CONTRACTING CO., Boxeman, at $26,013, for sewer system and Imhoff tank. Noted Sept. 9.

Mo., Fayette—Contract awarded to MORENO, BROOKS & BURKMAN, Syndicate Trust Co. Bldg., St. Louis, at $35,800, for sewer system and improvements to water system.

Tex., Dallas—Contract awarded to WINSLETT-ELDRIDGE CO., at $4,377, by City Commission for Cedar Creek outfall sewer.

Utah, Richfield—Contract awarded to JAMES KENNEDY, Salt Lake City, at $21,525 for sewer system and septic tank.

Calif., Marysville—Contract awarded to STANELY & OSTRANDER, Sausalito, at $13,500, by City Council, for extending sewers.

Ont., Hull City—Contract awarded to BISSON & CARON, at $10,796, for sewer in Laval St.

Ont., Toronto—Contract awarded to TUSSELL McREYNOLDS CO., 366 Keele St., Toronto, at $475,000, for sewers in Russel Hill Rd.

GARBAGE

Proposed Work

N. J., Atlantic City—Specifications prepared by J. Bacharach, Dept. Parks & Pub. Property, for disposal of garbage for five years.

Ga., Columbus—City will build new incinerator at Ninth St. and Eighth Ave.

Ill., Elgin—City Council contemplates incinerator and disposal plant. Estimated cost, $12,000.

Ark., Pine Bluff—Construction of incinerator under consideration.

STREETS AND ROADS

Proposed Work

Mass., Boston—(Official)—Bids will be received until noon, Oct. 8, by Edward F. Murphy, Comr. of Pub. Wks., 511 City Hall Annex, for artificial stone sidewalks in Penfield St. from Belgrade Ave. to Birch St., West Roxbury.

Mass., Boston—(Official)—Bids will be received by Edward F. Murphy, Comr. of Pub. Wks., 511 City Hall Annex, until noon, Oct. 8, for artificial stone sidewalks in Day St. from Center to Minden St. and Creighton St. from Center to Day St., Roxbury.

Mass., Dorchester—(Official)—Bids will be received by Edward F. Murphy, Comr. of Pub. Wks., Room 511, City Hall Annex, Boston, until noon, Oct. 8 ,for paving St. William St. from Dorchester Ave. to Aukland St.

Mass., New Bedford—City Council passed a loan order of $30,000 for permanent road work. W. F. Williams, City Engr.

Conn., New Britain—Elm St. will be paved at an estimated cost of $27,000.

N. Y., Scarsdale—Village plans to improve and repair a large number of streets and to develop a system by next year for the cars of its 26 miles of improved highways and the development of new roads.

N. Y., Tonawanda—Board of Public Works plans to pave Seymour St. with concrete.

N. J., Montclair—(Official)—Bids will be received by Harry Trippett, Town Clk., until 8 p.m., Oct. 11, for paving Upper Mountain Ave. from Bloomfield Ave. to Jerome Pl. (See adv.)

N. J., Perth Amboy—(Official)—Bids will be received by Board of Chosen Freeholders of Middlesex County, County Record Bldg., New Brunswick, until 2:30 p.m., Oct. 18, for repairing Amboy Ave.

Penn., Bridgeville—City will increase its bonded indebtedness $15,000, part of which amount will be used for paving.

Penn., Greensburg—(Official)—Bids will be received until noon, Oct. 26, by John S. Sell, County Controller, Westmoreland County, for the Scottdale-Tyrone Mills Rd., Section 1, and the Jeanette-Grapeville Rd.

Penn., Philadelphia—(Official)—Bids will be received by Bureau of Highways, Dept. of Pub. Wks., Philadelphia, until Oct. 14, for grading, paving and repaving a number of streets.

Md., Salisbury—Bids will be received until Oct. 12 by Commissioners of Wicomico County for two miles of State-Aid highway upon or along Salisbury-Anderson's Mill Rd.

Va., Monterey—Bids will be received by J. M. Coland, Mayor, until Oct. 19, for paving Main St. Estimated cost, $4,000. Noted Aug. 26.

W. Va., Buckhannon—Election will be held Dec. 30 in Upshur County to vote $250,000 bonds for roads.

W. Va., Morgantown—Citizens of East Morgan district voted to issue $300,000 bonds for road improvements.

W. Va., Moundsville—Bids will be received by O. B. Bonar, City Clk., until Oct. 11, for paving a number of streets.

W. Va., Piedmont—Citizens defeated $36,000 bond issue for street improvements. Noted Aug. 5.

Asheville, N. C.—City plans to pave Gudger St. from Haywood to Hill St.

Fla., Pensacola—Bids will be received by City Commissioners until Oct. 17 for paving streets around Pensacola Hospital. Estimated cost, $10,000. Noted Sept. 2.

Fla., St. Andrew—Bonds for $24,000 voted for street improvements.

Fla., Tallahassee—Citizens of Leon County voted $200,000 bonds for roads. J. C. Moore, Chn., Comrs. of Leon County. Noted Sept. 9.

Tenn., Lonsdale—(Knoxville post office)—Election will be held Oct. 30 to vote $30,000 bonds for paving.

Tenn., Newport—Bids will be received until Oct. 16 by George W. Gorrell, Chn., Pike Com., for grading and macadamizing roads in Cocke County. Estimated cost, $15[illegible].

Tenn., Park City—(Knoxville post office)—According to press reports Magnolia Ave. will be paved with asphalt.

Tenn., Shelbyville—Election will soon be held in Bedford County to vote $20,000 bonds for roads.

Tenn., Sweetwater—Citizens voted $5000 bonds for street improvements. Noted Sept. 9.

Ky., Georgetown—Commissioners of Scott County considering election to issue $100,000 bonds for roads.

Ohio, Canton—City Council plans to pave Fourth St., S. E. and Sterling Ave., S. E. Estimated cost, $116,000.

Ohio, Cincinnati—(Official)—Bids will be received by Board of County Commissioners of Hamilton County, until noon, Oct. 8, for improving Red Bank Rd. from Wooster Pike to Brotherton Rd., Columbia Township.

Ohio, Cincinnati—(Official)—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., City Hall, until noon, Oct. 14, for improving West Sixth St.

Ohio, Cleveland—Election will be held Nov. 2, to vote $300,000 bonds for improving Carnegie Ave. from East 88th St. to Blvd.

Ohio, Napoleon—Bonds for $15,200 for paving West Main St. will be sold.

Ohio, Woodsfield—Bonds for $20,000 sold for road improvements in Monroe County.

Ohio, Youngstown—(Official)—Bonds for street paving sold. Noted Sept. 16.

Ind., Albion—Citizens voted $50,000 bonds for 54 miles of highway in Noble County.

Mich., Howell—Bids will be received by B. Beurmann, Highway Comr., until 2 p.m., Oct. 11, for 6¾ miles of road in Genoa Township.

Mich., St. Joseph—Bids will be received about Nov. 1 for surfacing 48 miles of road in Berrien County. Estimated cost, $355,000.

Ill., East St. Louis—Board of Local Improvements plans to pave Broadway between Rock Rd. and Third St.

Ill., Lincoln—City plans an expenditure of $25,000 for street paving.

Iowa, Davenport—Board of Local Improvements plans to pave Eighth Ave. between 24th and 29th St.

Iowa, Dubuque—City Council plans to improve Grandview Ave.

Iowa, Ft. Dodge—Bids will soon be asked for constructing a number of sidewalks.

Iowa, Muscatine—Board of Supervisors of Muscatine County plan an expenditure of $12,000 for improving part of Muscatine-Nichols Rd.

Kan., Atchison—(Official)—Bids will be received by Victor L. King, City Clk., until March 1, for paving Main St. from Second to Fourth St. and Ninth St. from Santa Fé to Laramie St. Noted Sept. 23.

Neb., Lincoln—Bids will be received by H. E. Wells, Clk., Lancaster County, until Oct. 27, for construction of paving District No. 9.

Neb., North Platte—Citizens voted $16,000 bonds for paving.

Mo., Hillsboro—Election will soon be held in Jefferson County to vote $500,000 bonds for roads and bridges.

Mo., Jefferson City—Election to vote $150,000 bonds for roads in Cole County scheduled for Oct. 19 postponed until latter part of November. Noted Aug. 5 and Sept. 2.

Ark., Mt. Ida—Cmmissioners of Montgomery County plan to form road district for pike road from Mt. Ida to Hot Springs.

Ark., Pulaski Heights—City Council plans to improve Lee Ave. between intersection of Martin St. and Prospect Ave. and Laurel St.

Tex., Batesville—Election will soon be held in Zavalla County to vote $15,000 bonds for roads.

Tex., Franklin—According to press reports Commissioners of Robertson County, Precinct No. 6, plan to vote $100,000 bonds for roads.

Tex., Hillsboro—(Official)—Bids will soon be received for paving a number of streets.

Tex., Terrell—Bids will be received by F. W. Raley, Secy., Road Dist., until 2 p.m., Oct. 28, for graveling macadam roads. Estimated cost, $200,000.

Okla., Clinton—City plans to pave Frisco Ave.

Okla., Newby—(Official)—Citizens defeated $20,000 bonds for roads. Noted Sept. 23.

Okla., Tishomingo—(Official)—Citizens defeated $35,000 bond issue for road work. Noted Sept. 23.

N. M., Deming—Citizens voted $100,000 bonds for highways. Noted Aug. 12.

Idaho, Boise—Bids will be received by G. R. Barker, Secy. State Highway Comn., until Oct. 15, for seven miles of Idaho-Pacific State Highway. Estimated cost, $8,500.

Ariz., Globe—Election will be held Oct. 19 to vote $500,000 bonds for roads in Gila County.

Ariz., Nogales—Election will be held Oct. 23 in Santa Cruz County to vote $150,000 bonds for highways.

Ariz., Phoenix—Board of Supervisors approved $35,000 bonds for street improvements in School District No. 1.

Ariz., Yuma—An appropriation of $110,000 made by Yuma County for improving 110 miles of borderland highway.

Wash., Issaquah—Bids will be received until Oct. 12 by B. Phelps, Clk., Bd. of County Commissioners, Seattle, for Bond Rd. No. 18.

Ore., **Coquille**—Citizens contemplate an election to vote $440,000 bond issue for roads.

Calif., **Corona**—Bids will soon be received for paving North Main and River Sts. between the Santa Fé depot and county line.

Calif., **Hanford**—City Trustees plan to pave Park St. between Irwin St. and city limits.

Calif., **Los Angeles**—Bids will be received by H. J. Lelande, Clk., County Supervs., until 2 p.m., Oct. 11, for improving a portion of Harbor Truck Blvd.

Calif., **Sacremento**—Bids will be received until 2 p.m., Oct. 18, by California State Highway Commission, 515 Forum Bldg., for roads in various counties.

Calif, **San Francisco**—Board of Works plans to pave Beach St. from Hyde to Columbus Ave. and improve 19th Ave. between Vincente and Wawona St. Estimated cost, $4,050 and $8,000 respectively.

Calif., **Santa Barbara**—Bids will be received by C. A. Hunt, Clk., Bd. of County Supervisors, until Nov. 1, for paving Booths Point Rd. Estimated cost, $17,689.

Bids In and Contracts Awarded

Mass., Boston—Bids were received by State Highway Commission for highway in town of Norwell as follows: WILLIAM F. LOUD & SON, Wollaston, $10,806 (awarded contract); Pallotto & Davis Co., Lowell, $11,145; D. J. Sheehan Co., Lynn, $11,369. Noted Sept. 23.

Mass., Boston—Contract for grading walks, etc., in Ronan Park, Dorchester, awarded to JOHN C. COLEMAN & SONS, Roxbury, at $36,616.

Mass., Malden—Contract for concrete road on North Main St. awarded to HOLLAND CONSTRUCTION CO., Lawrence, at $1.49 per sq.yd.

Mass., Marlboro—Contract for granite block paving on Main St. awarded to SIMPSON BROS., CORPORATION, Boston, at $2.79 per sq.yd.

Comn., Hartford—Contracts for road work awarded by State Highway Commissioner as follows: Torrington Rd., Litchfield Township to LOUIS LONGHI & BRO., Torrington, at $6,870; Hartford Rd., Newington Township to THOMAS KEARNEY, Meridian, at $6,878; Hartford-New Haven Turnpike, Wallingford-North Haven Township to LANE CONSTRUCTION CORPORATION, Meridian, at $24,000; Stamford Township to R. G. MILLER CONTRACTING CO., Hartford, at about $31,000. Noted Sept. 16.

N. Y., New York—(Borough of Brooklyn)—(Official)—Charles A. Myers Contracting Co., Cypress and Willows Ave., Brooklyn, submitted the lowest bid for repaving Broadway from Havemeyer St. to Patchen Ave. at $114,286 and Topeka Paving Co., West 14th St. near Neptune Ave., Brooklyn, for repaving Surf Ave. from West 20th St. to West 37th St., at $43,070. Noted Sept. 23.

N. Y., New York—(Borough of Queens)—(Official)—The lowest bids received by Maurice E. Connolly, Borough Pres., for improving (a) Fairview Ave., (b) Parsons Ave., (c) Boulevard, were as follows: (a) Sicilian Asphalt Co., $1,622; (b) Thomas F. Tuchy, $2,060; (c) H. J. Mullen Contracting Co., $56,010. Noted Sept. 23.

N. Y., Rochester—Julius Friedrich, at $8,680, low bidder for paving Elmwood Ave.

N. J., Belleville—Contract for paving Overlook Ave. awarded to GLENFIELD CONSTRUCTION CO., at $15,042. Noted Aug. 26.

N. J., Newark—Contract for improving Front St. and Saybrook Pl. awarded to ALEXANDER J. MILMOE, Newark, at $23,621.

N. J., Ridgewood—Contract for concrete sidewalks and curbs in Rochelle Ave., Arcola Township, awarded to CHARLES T. MICHAEL, Rochelle Park, N. J., at $7,500. Noted Sept. 23.

N. J., Trenton—Bids were received for paving East Canal St. with granite block from C. A. Reid & Co., at $3.16 per sq.yd., and Easteburn and North Clinton Ave. with bermudez asphalt from Newton Paving Co., Trenton, at $1.52 per sq.yd.

Del., Wilmington—Bids were received for three miles of stone road on Kennett Pike from John F. O'Neill, Mt. Arba, and I. J. Hollingsworth, Elsmere.

Md., Baltimore—American Paving Co., at $0.19 per cu.yd., submitted the lowest bid for grading and paving Ellicott Driveway. Noted Sept. 16.

Md., Baltimore—American Paving Co., at $1.25, submitted the lowest bid for improving the Alamede Rd. between Hartford Rd. and Garrett property. Noted Sept. 9.

Va., Bland—(Official)—Contract for 2.46 miles of county road awarded to J. C. TUGGLE, Rocky Gap, at $6,990. Noted Sept. 23.

W. Va., Clarksburg—(Official)—Contract for paving North Fourth St. awarded to KEELEY BROS., Clarksburg, at $2.25 per sq.yd. A. J. Bishop, City Clk. Noted Sept. 23.

Fla., Clearwater—Commissioners of Pinellas County have declared election held recently to vote $715,000 bonds for brick highway, contract for which was awarded to EDWARDS CONSTRUCTION CO., illegal, and will hold another election. Noted Sept. 2 and 9.

Fla., Clearwater—Contract for concrete curb and gutter awarded to PINELLAS CONSTRUCTION CO., Augusta, Ga., at $6,987.

Fla., West Palm Beach—Contract for rock foundation for county road in District No. 5 awarded to GREYNALDS & MONROE, West Palm Beach; surfacing to EDWARDS CONSTRUCTION CO., Tampa. Noted Sept. 2.

Fla., Winter Park—Contract for brick pavement awarded to SOUTHERN CLAY MFG. CO., Chattanooga, Tenn., at $6,000.

Ala., Camden—Contract for road from Gastonburg to Clarke County line awarded to CENTRAL ALABAMA CONSTRUCTION CO., Selma, at about $70,000.

Ala., Carrollton—Contract for grading, draining and surfacing a portion of the Carrollton and Reform Rd. awarded to W. A. HICKS, Fayette, at $90,402. Noted Sept. 2.

Ala., Scottsboro—Contract for grading part of Woodville and Limrock Rd. awarded to F. D. HARVEY & CO., Woodville, at $9,157. Noted Sept. 16.

Miss., Meridian—Contract for curbs and gitters awarded to J. E. WRIGHT. Estimated cost, $8,000.

La., Coushatta—Contract for eight miles of road in Red River Parish awarded to W. E. GREEN, Lafayette, at $14,900.

Tenn., Dayton—Contract for 100 miles of macadam highway awarded to FREMAN & ROBBINS, Knoxville, at $210,000. Noted Sept. 9.

Tenn., Elizabethton—Contract for about 65 miles of macadam graded road between Elizabethton and Bluff City, to be a part of Memphis-Bristol Highway awarded to OLIVER-HILL CONSTRUCTION CO., Knoxville. Carter County recently voted $265,000 bonds for roads. Noted June 24 and Aug. 12.

Ky., Barbourville—Contract for 2.36 miles of pike awarded to T. J. VERMILLION.

Ky., Princeton—(Official)—Contract for two miles of macadam State-Aid highway awarded to DURRETT CONSTRUCTION CO., Louisville, at about $5,000 per mile.

Ohio, Bexley—Contract for paving Ridge Ave. awarded to H. E. BARTHMAN, Columbus. Noted Sept. 16.

Ohio, Calcutta—St. Clair Township Trustees rejected all bids for improving three roads.

Ohio, Marion—Contract for Winnemac Pike awarded to L. L. ALLEN, at $11,425; Marion and Ogasta Pike to F. M. WOLLEY at $8,175; Morral Pike to E. C. BRADY at $10,506.

Ohio, Ravenna—(Official)—Contract for improving Pratt St. from Main St. to Riddle Ave. awarded to LOWENSOHN & ULE, Ravenna, at $4,000. Noted Sept. 23.

Ohio, Steubenville—All bids for grading road at Laurel Hill, Jefferson County, rejected by Trustees of Island Creek Township. Noted Sept. 16.

Ohio, Van Wert—Contract for improving East Ridge Rd. awarded to McARTHUR & FOX, Belle Center.

Ind., Plymouth—(Official)—Contract for gravel roads in German and Center Townships awarded to MOYER & GOODALL, Laporte, and A. W. O'KEEFE, Plymouth, at $6,380 and $7,338 respectively. Noted Sept. 23.

Ind., Rochester—Contracts for roads awarded by County Commissioners as follows: Henry Township, two gravel roads to M. A. HALE, at $34,848; Bluff Rd. to H. H. STEWART at $13,680; Smith Rd. to HATCH & SARVEY at $9,750.

Mich., Blissfield—(Official)—Contract for macadam roads in Blissfield Township awarded to W. H. KNAPP & CO., Monroe. Noted Sept. 23.

Mich., Jackson—Contract for grading about three miles of Park Drive awarded to W. E. TENCH & CO., Detroit, at 22½c. per cu.yd.

Ill., Atlanta—Contract for paving business district awarded to JOHN E. BRETZ, Springfield, at $24,500.

Ill., Chicago—Lowest bids received by Board of Local Improvements for paving various streets and avenues were as follows: Campbell Ave., 8,200 sq.yd., F. P. McCormick at $1.74 per sq.yd.; Harding Ave., 2,000 sq.yd., R. F. Conway, at $1.78 per sq.yd.; 44th St., 4,800 sq.yd., R. F. Conway, $1.74 per sq.yd.; Leamington Ave., 1,920 sq.yd., American Asphalt Paving Co., at $1.69 per sq.yd.; Stewart Ave., 16,500 sq.yd., American Asphalt Paving Co., at $1.64 per sq.yd.; Ward St., 2,520 sq.yd., R. F. Conway ,at $1.70 per sq.yd.; Yale Ave., 66,800 sq.yd., Frank Proudfoot, at $1.48 per sq.yd.

Ill., Huntley—Contract for paving awarded to FAIR & TAYLOR.

Ill., Jacksonville—Contract for paving South Main St. awarded to INTERSTATE PAVING CO., East St. Louis, at $12,609.

Ill., Kankakee—Contract for paving Station St. from Harrison to Schuyler Ave. awarded to F. P. COUGHLIN CO., at $9,838.

Ill., Monticello—Lowest bids received by State Highway Commission, Springfield, for State Aid work in Platt County were as follows: C. A. Michael, Malloon, $28,250; A. Pfizenmayer, Jr., Terre Haute, $29,350; Granite City Lime and Cement Co., Granite City, $30,399.

Ill., Rockford—Contract for paving Fourth and 13th St. will be awarded about Oct. 20.

Ill., Woodriver—Contract for paving Whitelawn Ave. awarded to H. A. Grabbe, Alton, at $18,127.

Iowa, Clear Lake—Contract for paving awarded to BRYANT ASPHALT PAVING CO., Waterloo, at $86,000.

Iowa, Creston—(Official)—The contract for approximately 12,000 sq.ft. of cement sidewalk awarded to E. KENNEY & SONS, Creston, at $0.12 per sq.ft. Noted Aug. 19.

Iowa, Des Moines—Contract for paving First St. from New York Ave. to Euclid Ave. awarded to BRYANT ASPHALT PAVING CO.

Iowa, Guthrie Center—Remking Construction Co., Des Moines, at $71,000, submitted lowest bid for about 2½ miles of paving. Noted Sept. 2.

Minn., St. Paul—Keough Bros., at $8,300, submitted lowest bid for grading 8th St. in Franklin Addition.

Kan., Hutchinson—Contract for approximately 12,000 sq.yd. concrete paving awarded to McLEOD & CRANDALL, Hutchinson, at $1.17½ per sq.yd.

Mo., Kansas City—Contract for riprapping Blue Mills-Sibley Rd. awarded to DAVISON BROS., at $14,000.

Mo., Nevada—Contract for 12,000 yd. of pavement awarded to CLACK & WIGHT, Nevada, at $1.21 per sq.yd.

Mo., St. Louis—Contract for paving Magnolia Ave. awarded to WEBB-KUNZE CONSTRUCTION CO., at $13,257.

Mo., Sedalia—Contract for 9,200 sq.yd. vertical fiber brick with asphalt filler on Moniteau Ave., Eighth and 18th St. will be awarded about Nov. 1. Estimated cost, $16,100.

Tex., San Antonio—Contract for paving Haymarket and Market Plazas awarded to UVALDE ROCK ASPHALT CO., at $9,200.

Tex., Sulphur Springs—Contract for improving a number of streets awarded to THOGMARTIN & GARDNER. Noted Sept. 16.

Tex., Taylor—Contracts for paving awarded to UVALDE ROCK ASPHALT CO., San Antonio, and KAW PAVING CO., Topeka, Kan. Estimated cost of each, $150,000.

Okla., Ardmore—Contract for paving portion of Third Ave. awarded to SHELBY DOWNARD, at $5,923.

Okla., Poteau—Contract for paving awarded to J. W. ROOKS, McAlester, at $15,768.

Idaho, Pocatello—Contract for 26½ miles of highway in Bannock County awarded to REES & MUNSON, Blackfoot.

Wash., Bellingham—Contract for curbing, paving and guttering Madison and Walnut St. awarded to WASHINGTON PAVING CO., Tacoma, at $16,515.

Wash., Seattle—Contracts for paving awarded as follows: Mill St. to E. ARNOLD & CO., Seattle, at $11,260, and West Massachusetts St. to CASCADE CONSTRUCTION CO., at $33,984.

Calif., Eureka—Contract for grading Harris St. from D to S St. awarded to MERCER-FRASER CO., at $5,069.

Ont., Toronto—Contract for paving Bloor St. from Dundas St. to Indian Rd. and from Pacific to Hill Park Ave. awarded to CONSTRUCTION & PAVING CO., at $13,416 and $7,450 respectively; brick pavement on Bloor St. from Indian Road to Pacific Ave. to J. H. McKNIGHT CONSTRUCTION CO., at $19,004.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Daniel P. Collins will build six-story factory at 170 Harrison Ave.

Mass., Springfield—A. G. Spaulding Co. will build three-story addition to its factory. Estimated cost, $20,000.

Mass., Taunton—Magee Range & Furnace Co. plans plant at Taunton.

Mass., Worcester—Norton Grinding Co. plans mill at estimated cost of $50,000. Clarence W. Daniels, Ch. Engr.

Conn., New Haven—Winchester Arms Mfg. Co. will build new structures at estimated cost of $2,500,000.

Conn., Waterbury—Chase Metal Co. has had plans prepared for three, two-story additions.

N. Y., Hornell—Davis Foundry Co. will build two-story, 40x100-ft., addition to its foundry and two ovens, 22x30 ft. each.

N. Y., Lockport—Fibre Corporation has had plans prepared for rebuilding its plant which was recently destroyed by fire. Estimated cost, $60,000.

N. Y., Rochester—George W. Brownyard Co., Inc., plans one- and two-story, 142x153-ft., factory in Winton Rd. near Main St. Estimated cost, $25,000. Noted Sept. 2.

N. Y., Rochester—Eastman Kodak Co. will build two-story, 43x140-ft. and five-story, 80x165-ft. additions.

N. Y., Solvay—Candee Incubator Co. will build one-story, 100x450-ft. factory.

N. J., Bayonne—Texas Co., 17 Battery Pl., New York, N. Y., will build service plant, one and three stories. Estimated cost, $75,000.

Penn., Philadelphia—William Cramp & Sons' Ship and Engine Building Co. plans improvements to its ship yard. Estimated cost, $700,000.

Penn., Philadelphia—Niagara Thread Co. will build one-story, 50x150-ft., factory on Erie Ave.

Penn., Philadelphia—North Broad Street Storage Co. will build six-story brick and reinforced-concrete building. Moores & Dunford, New York, N. Y., Arch.

Penn., Philadelphia—Louis Walker Mfg. Co. will build three-story reinforced-concrete factory on Torresdale Ave. M. Ward Easby, Arch.

Penn., Reading—Carpenter Steel Works will build two-story, reinforced-concrete factory at River Rd. and Exeter St. Estimated cost, $30,000.

Penn., Schuylkill Haven—Schuylkill Haven Foundry & Machine Co. will rebuild plant which was recently destroyed by fire.

Md., Fairfield—United States Alcohol Co. will build four one-story, 188x325-ft., factories.

Va., Lamberts Point—(Norfolk post office)—Norfolk & Western Ry. Co. contemplates grain elevator. Estimated cost, $2,000,000. Joseph E. Crawford, Roanoke, Ch. Engr.

W. Va., Huntington—Stroehmann's Vienna Bakery, Wheeling, will build branch baking plant in Huntington. Estimated cost, $100,000.

W. Va., Huntington—Warehouse Land Co. plans storage warehouse, 100x175 ft.

S. C., Greenville—T. R. Hapgood will build ice plant at Hampton Ave. and Southern R.R. Co. track.

Fla., Kissimmee—Tucker Brick Co. will build brick plant. Estimated cost, $500,000.

Miss., Biloxi—A packing plant will be constructed by International Longshoremen's Association. Estimated cost, $30,000.

Miss., Meridian—Hattiesburg Wood Reduction Co. plans additions. Estimated cost, $25,000.

La., Gueydan—Gueydan Rice Co. having plans prepared for two-story reinforced-concrete factory. Snoddy & Stanley Arch., 401 Shubert Bldg., Kansas City, Mo., Arch. Estimated cost, $20,000.

Ohio, Cleveland—Harry Bialosky, 554 Leader News Bldg., and associates will build iron and steel plant on St. Clair Ave. and Babbitt Rd. Estimated cost, $200,000.

Ohio, Cleveland—Cyclone Woven Wire Fence Co. will build five-story factory at East 54th and 55th St. C. J. Barnes, Pres. Estimated cost, $150,000.

Ohio, Cleveland—Revised plans prepared by W. J. Carter, Illuminating Bldg., Cleveland, and bids will soon be received for four-story factory on East 79th St. for Van Dorn & Dutton Co. Estimated cost, $60,000. Noted Sept. 2.

Ohio, Cleveland—(Official)—Bamberger-Teinthal Co. advises that it will not build additions within the year. Noted Sept. 23.

Ohio, Cleveland—Menstock & Reid Co. will build brick addition to its plant at 3261 West 25th St. Estimated cost, $18,000.

Ohio, Marion—Press reports state Interstate Iron & Steel Co., Chicago, Ill., contemplates plant at Marion to replace Cambridge plant.

Ind., Strobe—Julius Strobe Portland Cement Co. has plans by Hunt Engineering Co. of Kansas City for rebuilding its plant. Estimated cost, $500,000.

Mich., Grand Rapids—Keeler Brass Co. will build addition, 150x200 ft., to its factory.

Minn., Minneapolis—National Candy Co. will build plant at 120 Second Ave. Building will be brick, 95x162 ft. and cost $100,000.

Minn., Minneapolis—Northwestern Elevator Co. plans fireproof grain elevator. Charles A. Magnuson, Pres.

Minn., St. Paul—Plans being prepared by Foltz Engineering Co., St. Paul, for flour mill for St. Paul Milling Co. Estimated cost, $100,000.

Mont., Butte—Floyd Hamil & Co., Butte, preparing plans for creamery for city. Building will be two stories, 40x100 ft. Estimated cost, $35,000.

Mo., St. Joseph—St. Joseph Paper Co. plans to remodel its four-story factory at Fourth and Locust St. Estimated cost, $10,000.

Mo., St. Joseph—Western Tablet Co. will build addition at 11th St. and Mitchell Ave. Estimated cost, $30,000.

Mo., St. Louis—Mississippi Valley Cold Storage & Warehouse Co. has plans for addition to its plant at Main and Ashley St.

Tex., San Antonio—(Official)—Bids will be received until Dec. 14 by Walsh & Hutchins, for Luck Tire & Mfg. Co., for factory to manufacture 100 tires daily. Noted Sept. 23.

Okla., Muskogee—Davidson Mill & Elevator Co. will rebuild its grain elevator recently destroyed by fire. Estimated cost, $50,000.

Colo., Denver.—Western Chemical Mfg. Co. has plans for factory. Estimated cost, $12,000.

Ore., Albany—Thomas Pulp & Paper Mill Co. plans to build pulp and paper mill. R. Thomas is interested.

Ont., Amherstburg—(Official)—Falls Barron Co. states it will not build cold-storage plant as reported. Noted Sept. 23.

Bids In and Contracts Awarded

Mass., Boston—Contract awarded to JAMES DRISCOLL & SON CO., 95 Washington St., Brookline, for creamery in Camden St., for F. W. Paine.

Mass., Springfield—Contract awarded to ERNEST F. CARLSON CO., for two buildings for Springfield Foundry Co.

Mass., Indian Orchard—Contract awarded to ERNEST F. CARLSON CO., for two one-story, 32x80-ft., buildings for Springfield Foundry Co.

Mass., New Bedford—Contract awarded to TURNER CONSTRUCTION CO., by Merchants' Terminal Warehouse Co., for nine-story, 110x160-ft., warehouse.

Mass., Palmer—Contract awarded to E. D. WARD, for addition to plant No. 14 of Wright Wire Co.

Mass., Springfield—Contract awarded to F. S. VALENTINE CO., Springfield, at $14,000, for two-story, 62x66-ft., brick and concrete garage for M. C. Barrett.

Mass., Williamstown—Contract awarded to CHARLES E. WHITNEY, North Adams, by John S. Boyd Co., for bleach house. Noted Sept. 23.

Conn., New Britain—Contract awarded to B. H. HIBBARD CO., New Britain, for mill for New Britain Chamber of Commerce Building Co. on East Ellis St.

Conn., Waterbury—Contract awarded to CHATFIELD & CHATFIELD CO., 94 Benedict St., for factory for American Brass Co., on Bank St.

N. Y., Buffalo—Contract awarded to MONARCH ENGINEERING CO., Chamber of Commerce Bldg., at about $60,000, for grain elevator for Archer Daniels Co. Noted Sept. 3.

N. Y., Buffalo—Contract awarded to JOHN W. COWPER CO., 620 Fidelity Bldg., for four-story addition to plant of Curtiss Aëroplane Co. Noted Sept. 16.

N. Y., Buffalo—Contract awarded to WESTERN BUILDING CO., Buffalo, at $35,000, for seven-story brick and steel building for Gerhard Lang Brewing Co.

N. Y., Goshen—(Official)—Contract awarded to MILLER-REED CO., 103 Park Ave., New York, at $25,000, for two-story, 60x60-ft. stone garage for R. B. Tweedy.

N. Y., Jamestown—Contract awarded to CHARLES HAAS by D. H. Grandin & Co., Inc., for one-story, 114x210-ft., warehouse.

N. Y., Montour Falls—Contract awarded to COMPTON REALTY CO. by Shepherd Crane & Hoist Co. for one-story brick and steel addition to plant.

N. Y., **New York**—(Borough of Manhattan)—Contract awarded to GEORGE A. FULLER CO., 111 Broadway, for three-story store and office building at Nassau and Franklin St., for Sun Printing & Publishing Co. Estimated cost, $65,000.

N. Y., **Seneca Falls**—Contract awarded to T. H. McHALE CONSTRUCTION CO., Syracuse, for plant for Seneca Falls Mfg. Co. Noted Aug. 29.

N. J., **Gloucester City**—Contract awarded to WILLIAM STEELE & SONS CO. by Welsbach Co. for four three-story buildings. Estimated cost, $500,000.

N. J., **Newark**—Contract awarded to EDWARD M. WALDRON, INC., for 60x80-ft. factory on Columbia St., near Lafayette St., for Oelkers Mfg. Co. Estimated cost, $15,000.

Penn., **Philadelphia**—Hess-Bright Mfg. Co. awarded contract to HARRISON C. REA CO. for brick and steel, 40x200-ft. factory. Watson & Huckle, Arch.

Penn., **Pittsburgh**—Contract awarded to FETZERWINGER CO., at about $80,000, by E. W. Proeger, at 206 Second Ave., for six-story garage and warehouse. Noted Aug. 26.

Penn., **Sharon**—Contract awarded to WALLIS & CARLEY CO. by Pennsylvania Tank Car Co. for factory to double capacity of its plant.

N. C., **Concord**—Contract awarded to T. C. THOMPSON BRO., Charlotte, for 106x210-ft., cotton mill for Norcott Mill. Estimated cost, $175,000.

Ga., **Atlanta**—Contract awarded to GRIFFIN CONSTRUCTION CO., at about $17,000, for three-story, 72x95-ft. factory for E. G. Willingham.

Ga., **West Point**—Contract awarded to GALLIVAN BUILDING CO., Greenville, S. C., at about $500,000, for addition to mill of West Point Mfg. Co.

Ala., **Mobile**—Contract awarded to STONE & WEBSTER ENGINEERING CORPORATION, 107 Milk St., Boston, Mass., at about $1,000,000, for buildings and wharves for Terminal Transfer & Storage Co. Noted Sept. 23.

La., **New Orleans**—Contract awarded to JEFFERSON CONSTRUCTION CO., $38,322, for foundation for municipal grain elevator.

Tenn., **Nashville**—Contract awarded to FOSTER & CREIGHTON CO., Nashville, by Ford Motor Co., for three-story, 75x170-ft. assembling plant. Noted July 29.

Ohio, **Cleveland**—Contract awarded to S. W. EMERSON CO., Chamber of Commerce Bldg., for factory at 2206 Parkwood Drive for Steel Products Co. Estimated cost, $30,000. Noted Sept. 30.

Ohio, **Cleveland**—(Official)—Contract awarded to DE HAMEL CONSTRUCTION CO., at $30,000, for garage for American Express Co. Noted Sept. 23.

Ohio, **Mansfield**—Contract awarded to ALBERT HANCOCK by Perfection Bed Spring Co. for two-story, 50x140-ft. brick factory at Erie R.R. near Orange St.

Ohio, **Youngstown**—Contract awarded to UNITED ENGINEERING AND FOUNDRY CO., Pittsburgh, Penn., for two tube mills for Republic Iron and Steel Co. Estimated cost, $500,000. Noted July 29.

Ill., **Chicago**—Contract awarded to WILLIAM M. HOYT, at about $250,000, for six-story printing plant at 22d and Grove St., for Henneberry Co.

Ill., **Springfield**—Contract awarded to BUCKBEE & CO., at about $25,000 for reinforced-concrete factory for Havana Metal Wheel Co.

Iowa, **Independence**—Contract awarded to T. STORK, Cedar Rapids, at $15,842, by State Board of Control for one-story brick laundry.

Neb., **Lincoln**—Contract awarded to W. J. ASSENMACHER, 2205 Worthington Ave., at $12,000, for three-story addition to warehouse for Star Van and Storage Co., Eighth and R St.

Mo., **Kansas City**—Contract awarded to JAMES STEWART & CO., New York, N. Y., at about $50,000, for reinforced-concrete superstructure of additional bins for Chicago, Milwaukee & St. Paul Ry. Co. elevator.

Mo., **Kansas City**—Contract awarded to GEORGE H. SIEDHOFF CONSTRUCTION CO., Finance Bldg., at $48,000, by Standard Oil Co. for garage and for remodeling warehouse.

Tex., **Houston**—Contract awarded to CENTRAL CONSTRUCTION CO., at $10,000, for rebuilding plant for Fidelity Cotton Oil Co.

Okla., **Enid**—Contract for brick warehouse for Alton Mercantile Co. awarded to WELLER & REARDON at $10,800.

Okla., **Oklahoma**—Contract awarded to HODGINS CONSTRUCTION CO., St. Paul, Minn., at about $500,000 for four-story, 140x275-ft., assembling plant on Main St., for Ford Motor Co. Noted Aug. 19.

Ont., **Windsor**—Contract awarded to WELLS & GRAY, at about $10,000, for 42x111-ft. addition to factory for Kelsey Wheel Co.

FEDERAL GOVERNMENT WORK

Proposed Work

Steamer—Newport, R. I.—Bids will be received at U. S. Engineer Office, Newport, until noon, Nov. 3, for purchase of steamer "Cora." (See Adv.)

Street Lighting System—Ft. Terry, N. Y.—Bids will be received by Constructing Quartermaster, Fort H. G. Wright, for underground street lighting system, including 11 lamps at Ft. Terry. (See Adv.)

Wharf—Ft. Totten, N. Y.—Bids will be received at office of Quartermaster, until 10 a.m., Oct. 8, for repairs to short wharf at Ft. Totten.

Buoy Bodies—New York, N. Y.—(Borough of Richmond)—Bids will be received at office of Light House Inspector, Tompkinsville, N. Y., until 2 p.m., Oct. 11, for 10 acetylene buoy bodies, type S.

Post Office—Salamanca, N. Y.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 12, for U. S. post office at Salamanca.

Shelving—Bedford, Penn.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for shelving in U. S. public building at Bedford.

Interceptor—Washington, D. C.—Bids will be received until 2 p.m., Oct. 12, at office of Commissioners of District of Columbia, Room 509, District Building, for Section 5, Anacostia Main Interceptor, District of Columbia. (See Adv.)

Paving—Washington, D. C.—Bids will be received by Secretary, Bd. of Comrs., Room 509, District Bldg., Washington, D. C., until 2 p.m., Oct. 19, for paving streets. (See Adv.)

Sale of Distilling Plant—Ft. Caswell, N. C.—Bids will be received by Constructing Quartermaster, Ft. Caswell, until Oct. 25, for sale of material for pure water distilling plant. (See Adv.)

Post Office—Sidney, Ohio—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 8, for post office at Sidney.

Post Office—Van Wert, Ohio—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 10, for post office at Van Wert.

Pipe Line Extension—Carlsbad, N. M.—Bids will be received until Oct. 8 by U. S. Reclamation Service, Carlsbad, for Dark Cañon pipe line extension of the Carlsbad project, about two miles south of Carlsbad.

Shelving—Brigham City, Utah—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until Oct. 9, for shelving in U. S. public building at Brigham City.

Shelving—Berkeley, Calif.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for shelving in U. S. public building at Berkeley.

Shelving—Grass Valley, Calif.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for shelving in U. S. public building at Grass Valley.

Shelving—Pasadena, Calif.—Bids will be received by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., until Oct. 12, for shelving in U. S. public building, Pasadena.

Bids In and Contracts Awarded

Dredging—New London, Conn.—The only bid received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging at Naval Station, New London, was that of Scott Bros., New London, at 39c. per cu.yd. Noted Sept. 30.

Post Office—Harrisburg, Penn.—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for making extensions and remodelling the post office at Harrisburg as follows: H. L. Brown Co., Mt. Vernon, N. Y., $127,900; Conners Bros., New York, N. Y., $133,000; Newport Contracting & Engineering Co., Newport News, Va., $128,917.

Post Office—Smyrna, Del.—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Smyrna as follows: E. T. Abbott Construction Co., $26,800; King Lumber Co., Charlottesville, Va., $24,500 (low bidder); Olin Gerlach, Frostburg, Md., $24,974. Noted Aug. 26.

Dredging — Wilmington, Del. — Contract for dredging Murderkill and Mispillion Rivers, Delaware, awarded to RIVER AND HARBOR IMPROVEMENT CO., Philadelphia, Penn., at $5,048.

Dredging—Baltimore, Md.—Contract for dredging in rivers and harbors on east shore of Chesapeake Bay awarded to MARYLAND DREDGING CO., Baltimore. Noted Aug. 19 and Sept. 23.

Retaining Wall—Washington, D. C.—Contract for retaining wall on west side of Meridian Hill Park awarded to BOYLE-ROBERTSON CONSTRUCTION CO., Washington, D. C., at $21,522. Noted Sept. 2.

Vessel—Washington, D.C.—Contract awarded to MANITOWOC SHIPBUILDING AND DRY DOCK CO., Manitowoc, Wis., at $189,000, by U. S. Coast and Geodetic Survey, for vessel. Noted Sept. 2.

Dredging—Norfolk, Va.—Bids were received by U. S. Engineer, Norfolk, for dredging and rock excavation in James River as follows: (a) 15,000 cu.yd. dredging, (b) 2,800 cu.yd. hard rock excavation, (c) total: Norfolk Dredging Co., (a) 70c., (b) $11.50, (c) $42,700; Maryland Dredging Co., (a) 57c., (b) $9.30, (c) $34,590; P. Sandford Ross, Inc., (a) 69c., (b) $10.28, (c) $39,134. Noted Sept. 16.

Cell Fronts, Locking Devices—Atlanta, Ga.—MESKER BROS. IRON CO., St. Louis, Mo., at $17,125, awarded contract for steel cell fronts and mechanical locking device at U. S. Penitentiary, Atlanta. Noted Sept. 23.

Post Office—Live Oak, Fla.—Contract for United States post office at Live Oak awarded to W. H. FISSELL CO., New York, N. Y., at $47,500.

Post Office—New Albany, Ind.—Contract for making extensions and remodeling post office at New Albany awarded to R. P. FARNSWORTH & CO., Owensboro, Ky., at $67,675.

Earthwork—Ft. Laramie, Wyo.—Contracts awarded for earthwork on about 10 miles of main canal at Ft. Laramie unit as follows: Schedules 1 and 2 involving 750,300 cu.yd. excavation and 79,000 cu.yd. of overhaul, WINSTON BROS., Minneapolis, Minn., at $121,347; Schedules 3 and 4 involving 539,700 cu.yd. of excavation and 35,000 cu.yd. overhaul, FRED N. CRANE CO., at $77,960. Noted Aug. 12.

Structures—Malta, Mont.—Contracts awarded for structures, Nelson Reservoir, South Canal, Milk River Project as follows: Schedules 1 and 2 involving 296,100 cu.yd. material and 25,000cu.yd. overhaul, WINSTON BROS., MINNEAPOLIS, Minn., at $41,930; Schedule 3 involving 60,550 cu.yd. of excavation and 5,000 cu.yd. of overhaul, SNELSON BROS., Galscow, at $7,490. Noted Aug. 26.

Post Office—Tulsa, Okla.—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Tulsa as follows: (a) marble, (b) limestone, (c) sandstone: Sound Construction & Engineering Co., Seattle, Wash., (a) $258,995, (b) $213,719; R. E. Campbell, Salt

Lake City, Utah, (a) $258,820, (b) $212,820; W. H. Fissell & Co., New York, N. Y., (a) $238,800, (b) $196,300, (c) $209,300. Noted Aug. 12.

Buildings—Bremerton, Wash.—Contract for one steel shell house and two brick magazines at Puget Sound Navy Yard awarded to CARNEGIE STEEL CO., Philadelphia, Penn., at $35,974. Noted Aug. 12 and Sept. 23.

Light Station—Navassa Island, West Indies—Bids were received by Bureau of Lighthouses, Dept. of Commerce, Washington, D. C., for light house on Navassa Island as follow: (a) metal work, (b) construction, exclusive of metal work: Champion Iron Works, Canton, Ohio, (a) $12,078; T. J. Carlin Construction Co., New York, N. Y., (a) $25,000, (b) $155,000; Ellicott Machine Works, Baltimore, Md., (a) $13,892. Noted Aug. 5.

CANALS—DITCHES—IRRIGATION

Proposed Work

Drainage—Chautauqua, N. Y.—W. W. Warsaw, Drainage Engr., of New York State College of Agriculture, Ithaca, preparing plans for drainage system for Chautauqua County.

Drainage—Savannah, Ga.—Election will be held Oct. 12 to vote $400,000 bonds for drainage.

Ditches—Arcadia, Fla.—Bids will be received until Oct. 11 by Arcadia Drainage District for 12 miles of open ditches. Estimated cost, $24,000. Cravens & Kimmel, Arcadia, Engr.

Drainage—Lake Worth, Fla.—Surveys being made for drainage system for Lake Worth drainage district. Orrin Randolph, Ch. Engr.

Ditch—Fremont, Ohio—County Engineer authorized to prepare plans and estimates for improving Pickerel Creek ditch. Estimated cost, $16,000.

Ditch—Muncie, Ind.—F. Horace Weber, County Surveyor, will prepare plans for Stewart Ditch, about 6,000 ft. of 16-in. and 18-in. tile and the Larue ditch, about 11,000 ft. of 20- and 24-in. shale tile.

Ditch—Winamac, Ind.—Bids will be received until Oct. 16 by C. E. Paul, Const. Comr. for Selmer Ditch, about 16,400 ft.

Drainage—Council Bluffs, Iowa—Petition presented to Board of Supervisors for drainage district along Silver Creek.

Drainage—Ft. Dodge, Iowa—County Supervisors considering establishment of Drainage District No. 201. J. L. Hanrahan, County Audr.

Drainage—Iowa City, Iowa—Board of Supervisors of Johnson County decided to form new drainage district to reclaim part of approximately 4,000 acres of Johnson County, Oxford Township.

Ditch—Blue Earth, Minn.—Bids will be received until 11 a.m., Oct. 22, by Jesse L. Herring, County Audr., Faribault County, for Judicial Ditch No. 10.

Ditch—Breckenridge, Minn.—Bids will be received by B. E. Truax, County Audr., until Oct. 20, for County Ditch No. 20, Wilkin County.

Ditch—Mankato, Minn.—Bids will be received until 2 p.m., Oct. 19, by C. L. Kennedy, County Audr., for Ditch No. 39, Blue Earth County.

Ditch—Montevideo, Minn.—Bids will be received until 2 p.m., Oct. 11, by J. J. Stennes, County Audr., for County Ditch No. 17, Chippewa County.

Ditch—Roseau, Minn.—(Official)—Bids will be received until Oct. 20 by County Auditor, Roseau County, for excavating Judicial Ditch No. 62.

Ditches—Fargo, N. D.—According to press reports two ditches will be constructed through a portion of Kenyon and Noble Township to Red River.

Irrigation—Glendive, Mont.—Plans prepared for Fallon Flat irrigation project by F. A. Hanford, City Engr.

Drainage—Waxahachie, Tex.—Commissioners Court of Ellis County authorized bond issue of $121,000 for drainage and levee system in District No. 2. Noted Aug. 26.

Irrigation—Carey, Idaho—Elmer H. Caldwell, Engr., Salt Lake City, Utah, preparing plans for reservoir and irrigation system for Little Wood River.

Irrigation—Newberry, Wash.—A movement is on foot to organize an irrigation district to irrigate 500,000 acres. R. W. Carter and John W. Sumner interested.

Drainage—Woodburn, Ore.—Preliminary surveys being made for about 75 sq.mi. of land between West Woodburn and Brooks. If report is favorable drainage district will be established.

Irrigation—Porterville, Calif.—Board of Supervisors has approved the plans for formation of Strathmore-Lindsay irrigation district for the purpose of irrigating 20,000 acres. Estimated cost, $2,000,000.

Bids In and Contracts Awarded

Barge Canal Work—Albany, N. Y.—(Official)—Bids were received by W. W. Witherspoon, State Supt., Pub. Wks., for barge canal work under Terminal Contract No. 47 as follows: I. M. Ludington Sons, Inc., Rochester, $38,630; Public Source Contracting Co., Niagara Falls, $39,466; F. J. Mumm Contracting Co., Inc., Buffalo, $40,120. Noted Sept. 9.

Ditch—Holcomb, N. Y.—Contract for drainage ditch in swamp of muck land east of Holcomb awarded to ANTHONY C. SARTORE, Canadaigua.

Ditch—Humboldt, Iowa—Contract for Ditch No. 77 awarded to E. E. EDWARDS, at $35,000.

Ditch—Worthington, Minn.—(Official)—Contracts for Ditch No. 12 (a) open work; (b) tile work, awarded as follows: (a) JAMES McKILLIP at 8⅝c. per cu.yd.; (b) P. L. RIVARD at $12,700. W. H. Saxon, Engr. Noted Sept. 16.

Irrigation—Belle Fourche, S. D.—CURTIS BROS., Columbus, Neb., at $8,771, awarded contract for earth work on North Canal extension and laterals, Belle Fourche Irrigation project.

Drainage—Marion, Ark.—Contract for about 1,600,000 cu.yd. of excavation to drain about 28,000 acres near St. Francis levee awarded to OTTO KOCHITITTZKY, Cape Girardeau, Mo.

Irrigation—Oakdale, Calif.—Contract for steel p[illegible] for Oakdale Irrigation system awarded to WESTERN PI[illegible] AND STEEL CO., at $11,000. Noted Sept. 16.

MISCELLANEOUS

Proposed Work

Steel Furniture—Albany, N. Y.—Bids will be rece[illegible] by Trustees of Public Buildings, Executive Chamber, Capitol, Albany, until 2 p.m., Oct. 12, for steel furniture. (See Adv.)

Retaining Wall—Pittsburgh, Penn.—Bids will be received by Hyatt M. Cribbs, County Controller, until Oct. [illegible] for concrete retaining wall along Scotia Hollow Rd.

Piers—Baltimore, Md.—According to press reports a movement is being agitated by Mayor Preston, Harbor Board and Way Department for developing water front between Ft. McHenry and Ferry Bay. Work will include construction of eight piers.

Elimination of Grade Crossings—Cleveland, Ohio—Election will be held Nov. 2 to vote $1,600,000 bonds for elimination of grade crossings.

Park Bonds—Massillon, Ohio—Bonds for $25,000 sold for parks.

Flood-Protection Wall—Portsmouth, Ohio—Bids for second section of Portsmouth "Flood-Protection Wall" will be opened the week of Nov. 1 to 6. (See Adv.)

Coaling Station—Chicago, Ill.—Baltimore & Ohio Chicago Terminal R.R. Co. will build coaling station at 1450 South Lincoln St. Estimtaed cost, $25,000.

Harbor Improvements—Milwaukee, Wis.—(Official)—Harbor Commission decided to postpone harbor improvements until next year. Noted Sept. 23.

Wharves, Docks, Etc.—Orange, Tex.—Contract will soon be awarded for wharves, docks, etc. Estimated cost, $150,000. Noted Sept. 30.

Dam—Idaho Falls, Idaho—Plans prepared for improving city dam and bids will soon be asked. Estimated cost, $20,000.

Subway—Seattle, Wash.—Construction of Morman St. tunnel and Lenora St. subway contemplated. A. Chittenden, Seattle, interested.

Flood Protection—Los Angeles, Calif.—According to press reports election will soon be held to vote $6,000,000 bonds for inaugurating works of conservation, flood control and harbor protection.

Grand Stand and Race Track—San Francisco, Calif.—Press reports state that company is being organized to construct grand stand and race track at Tijuana, lower California. Estimated cost, $650,000. A. B. Spreckles interested.

Esplanade—San Francisco, Calif.—Plans for first section of esplanade near Cliff House approved by Board of Public Works. Noted Aug. 26.

Jetty—San Luis Obispo, Calif.—Bids will be received by Board of Supervisors until Oct. 11 for pile jetty along north side of Santa Maria River.

Mausoleum—Whittier, Calif—Pacific Mausoleum Co. plans to build mausoleum at Whittier.

Bulkhead—Vancouver, B. C.—Harbor Commissioners plan bulkhead at False Creek District to reclaim 40 acres of mud flats under Granville Bridge. Estimated cost, $40,000.

Bids In and Contracts Awarded

Dry Dock—Boston, Mass.—Contract for dry dock awarded to HOLBROOK, CABOT & ROLLINS, New York, N. Y. Estimated cost, $3,000,000. Noted Sept. 23.

Dredging—Boston, Mass.—Bids were received by Directors of Port of Boston for dredging 35,000 cu.yd. in Neponset River as follows: J. P. O'Riorden, Charleston, 13¾c. per cu.yd.; Eastern Dredging Co., East Boston, 20¼c. per cu.yd.; J. S. Packard Dredging Co., Providence, R. I., 23⅞c. per cu.yd.

Pier Extension—New York, N. Y.—(Borough of Brooklyn)—(Official)—Riverside Contracting Co., at $22,366, submitted lowest bid for extending Pier 22, near Jay St., North River. Noted Sept. 23.

Freight Shed—New York, N. Y.—(Borough of Brooklyn)—(Official)—Post & McCord, 101 Park Ave., New York, N. Y. (Borough of Manhattan), at $279,845, submitted lowest bid for freight shed on pier at 35th St. under Contract No. 1473. Noted Sept. 23.

Drain—Newark, N. J.—Board of Freeholders awarded contract for drain in Valley Road to CESTARE CONSTRUCTION CO., at $15,000.

Levee—Alexandria, La.—Contract for levee from White Pl. to Wilson Point, on Red River, awarded to DAMERON-WHITE CO., at about $21,000.

Levee—Glenwood, Iowa—Contract for repair of Pond Creek levee awarded to FRED M. CRANE CO., Omaha, Neb.

Flood Protection—Kansas City, Mo.—(Official)—Contract for flood protection work on Turkey Creek awarded to GEORGE SIEDHOFF CO. Noted Sept. 23.

Pier Shed—San Francisco, Calif.—State Board of Harbor Commissioners awarded contract for shed on Pier No. 35 to HEALY-TIBBITTS CONSTRUCTION CO., at $74,722.

By-Pass—San José, Calif.—Contract for Cancos By-Pass awarded to M. KILCOURSE, at $10,230.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Maine, New Gloucester—New bids being received by state for kitchen and laundry for State School for Feeble-Minded. Estimated cost, $50,000.

Mass., **Boston**—Bids will be received until 3 p.m., Oct. 14, by Secy. for pavilion on Charles St. for Massachusetts General Hospital. Coolidge & Shattuck, 122 Ames Bldg., Boston, Arch.

Mass., **Dorchester**—Bids being received by J. Cusher, 544 Beach St., Revere, for one-story, 60x150-ft., store and apartment building. Estimated cost, $60,000.

Mass., **Fall River**—J. Darling, Arch., preparing plans for remodeling Bay St. Jail for city. Estimated cost, $75,000.

Mass., **Hyde Park**—Bids will soon be received, according to press reports, for addition to high school. Charles R. Greco, 8 Beacon St., Boston, Arch. Estimated cost, $75,000.

Mass., **Jamaica Plain**—According to press reports bids being received for four-story and basement, 50x60-ft., brick store and apartment for Y. Kayajiaan, care of H. S. Memoorjian, 340 Main St., Worcester. Estimated cost, $50,000.

Mass., **Malden**—Bids will be received until 9 a.m., Oct. 9, for tuberculosis hospital for city. Stebbins & Watkins, 164 Federal St., Boston, Arch.

Mass., **New Bedford**—Protective Order of Elks will build seven-story building as headquarters.

Mass., **Salem**—John M. Gray, care of James McGinniss, 16 Arlington St., Boston, preparing plans for nine-room brick school addition for city of Salem. Estimated cost, $75,000.

Mass., **Waltham**—Bids will soon be received for one-story, 62x184-ft., brick and terra cotta church for St. Charles Church. James F. Monaghan, 98 Luke St., Waltham, Arch. Estimated cost, $80,000.

R. I., **Providence**—Bids will be received about Oct. 11 for school on Cole Ave. Stone, Carpenter & Sheldon, Providence, Arch. Estimated cost, $200,000.

N. Y., **Buffalo**—Harlow C. Curtiss will build two-story commercial and office building at 292 Delaware Ave. Estimated cost, $60,000.

N. Y., **Buffalo**—Bank of Buffalo will build four-story bank and office building at Main and North Division St. E. C. McDougal, Pres.

N. Y., **East Aurora**—(Official)—As soon as plans are prepared election will be held to vote on question of building high school. Harris Merritt, Buffalo, Arch. Harry G. Henshaw, Secy. Noted Sept. 23.

N. Y., **New York**—See item under "Water-Works."

N. Y., **Rochester**—Masonic Lodge will build temple on Seneca St. at estimated cost of $50,000.

N. Y., **Rochester**—Plans prepared by Maurer & Mills, Arch., Schofield Bldg., Cleveland, Ohio, for one-story and basement church. Estimated cost, $60,000.

N. Y., **Utica**—Edward J. Berg, Arch., preparing plans for three-story school for St. Patrick's Church. Estimated cost, $50,000.

N. Y., **Watertown**—Frank W. Woolworth, New York, plans 10-story office building at Arsenal St. and Public Sq.

N. Y., **Yonkers**—Plans prepared by Beersman & Vollmer & Evarts Tracy, 244 Fifth Ave., New York, for four-story masonic temple at Guion St. and South Broadway for Masonic Guild, F. & A. M. Bids will soon be received. Estimated cost, $70,000.

N. J., **Bayonne**—(Official)—We have been advised that Board of Education is not yet ready for bids for public school No. 4. W. J. Fowley, Secy. Noted Sept. 23.

N. J., **Bayonne**—Board of Education plans addition to School No. 3. Estimated cost, $75,000.

N. J., **Hoboken**—Board of Education plans vacation school. William A. Kerr, Secy. Bd.

N. J., **Montclair**—Starrett & Van Vleck, New York, prepared plans for remodeling old high school. Estimated cost, $50,000.

N. J., **Newton**—Board of Education considering new high school.

N. J., **Perth Amboy**—J. N. Pierson & Son, 110 Smith St., preparing plans for two-story office building at Madison and Smith St. for Pratt-Brown Co. Estimated cost, $40,000.

N. J., **Trenton**—George S. Drew, State Arch., prepared plans for three-story concrete addition to State House of Detention. Estimated cost, $50,000.

N. J., **Trenton**—(Official)—Bids will be received until noon, Oct. 19, by Alfred Gaskill, Dir. Dept. of Conservation and Development, for building, plumbing and heating and electrical work for laboratory for Department of Conservation and Development. Noted Sept. 30. (See adv.)

N. J., **Vineland**—Plans prepared by George S. Drew, State Arch., Trenton, for dining and service building for State Home for Feebleminded Women. Estimated cost, $50,000.

N. J., **Wildwood**—All bids received for two-story and basement school rejected by Board of Education. New bids will be received. Noted Sept. 2.

Penn., **Bethlehem**—Lodge No. 283, Free and Accepted Masons, will build temple on East Broad St. Estimated cost, $60,000.

Penn., **Duquesne**—Pennsylvania R.R. Co. will make improvements to its freight terminal. Estimated cost, $250,000. Alex D. Shand, Philadelphia, Ch. Engr.

Penn., **Johnstown**—Knights of Pythias contemplate lodge building. Estimated cost, $50,000. H. M. Rogers, Johnstown Trust Bldg., Arch.

Penn., **Johnstown**—Justin-Bergman Co. will build three-story building. Estimated cost, $50,000.

Penn., **Lebanon**—Bids will soon be received for two-story, 200x200-ft. brick and stone high school. A. Richter, Reading, Arch. Estimated cost, $175,000.

Penn., **Logan**—Neff & Thomas, Arch., Philadelphia, preparing plans for building for Methodist Episcopal Congregation. Estimated cost, $50,000.

Penn., **Philadelphia**—Plans being prepared by J. H. Cook, Arch., for three-story addition to school. Estimated cost, $60,000.

Penn., **Philadelphia**—Neff & Thomas, Arch., preparing plans for one-story stone church for Methodist Episcopal Church at Logan. Estimated cost, $50,000.

Penn., **Pittsburgh**—Pittsburgh & Lake Erie R.R. Co. will build office and freight warehouse at Smithfield and Carson St.

Penn., **Scranton**—A. J. and P. J. Casey, Hotel Casey, have plans for brick and steel addition to their hotel, and will soon receive bids. McKenzie, Voorhees & Grenlin, 1123 Broadway, New York, N. Y., Arch.

Penn., **Wilkes-Barre**—William Stoddard Co. will build three-story building on South Main St. Estimated cost, $50,000.

Penn., **Zelienople**—Church will be built by Pittsburgh Synod of Evangelical Lutheran Church at its Old People's Home. Estimated cost, $50,000.

Del., **Wilmington**—According to press reports new free library building will be constructed. Estimated cost, $300,000.

Md., **Baltimore**—Plans being prepared by Baldwin & Pennington, Arch., for church on Smith Ave. near First St., Mt. Washington, for Sacred Heart Congregation. Estimated cost, $40,000.

Va., **Suffolk**—Citizens voted $70,000 bonds for police station.

W. Va., **Wheeling**—Charles W. Bates, Board of Trade Bldg., preparing plans for three-story and basement, 33x80-ft. bank and office building for Farmers & Merchants' National Bank. R. L. Bowman, interested.

W. Va., **Wheeling**—F. F. Farris, Schmulbach Bldg., preparing plans for two-story and basement school. Estimated cost, $100,000.

N. C., **Wilkesboro**—A company of which H. H. Rogers is Secy. contemplates hotel at Ninth and B St. Estimated cost, $40,000.

Ga., **Savannah**—Bonds for $525,000 voted by citizens for public schools.

La., **New Orleans**—City contemplates six-story office building for Sewage and Water Board. George G. Earl, Supt.

La., **New Orleans**—Bids will soon be received for club house for Surf Club at Spanish Fort., New Orleans. Estimated cost, $75,000. W. J. Deghers, Deputy City Surveyor, is Dir.

Tenn., **Nashville**—Board of Education plans to build Elliott School and Pearl School. Estimated cost, $71,800 and $65,200 respectively.

Ky., **Dawson Springs**—Brinton B. Davis, Inter-Southern Bldg., Louisville, plans hotel at Dawson Springs. Estimated cost, $75,000.

Ky., **Louisville**—State Department of Agriculture, Frankfort, plans exhibit building at state fair grounds, Louisville. Estimated cost, $150,000.

Ohio, **Akron**—Philip Robinson, Akron, preparing plans for three-story office building at 980 East Market St. for Howard Realty Co. Estimated cost, $40,000.

Ohio, **Canton**—Plans prepared by W. S. Epperson, Arch., for three-story, 100x125-ft. graded school. Estimated cost, $60,000.

Ohio, **Canton**—Plans prepared by W. S. Epperson, Arch., for two-story, 70x125-ft. concrete and brick church for Martin Luther Church. Estimated cost, $40,000.

Ohio, **Cincinnati**—Plans prepared by John T. Comes, Arch., Pittsburgh, Penn., for church for St. Mary's R. C. Church at Erie Ave. and Shady Lane. Estimated cost, $60,000.

Ohio, **Cincinnati**—Bids will soon be received for Y. M. C. A. building at Elm and Canal St. Elzner & Anderson, Arch. Estimated cost, $380,000. Noted Sept. 2.

Ohio, **Cincinnati**—G. W. Drach, Cincinnati, prepared plans for addition to Betheada Hospital. Estimated cost, $40,000.

Ohio, **Cleveland**—Walter R. McCormack, Bd. of Education, preparing plans for administration building at East Sixth St. and St. Clair Ave. for city. F. G. Hogan, Dir. of Schools. Estimated cost, $1,250,000.

Ohio, **Cleveland**—Citizens will vote Nov. 2 on $1,000,000 bond issue for schools and improvements to schools.

Ohio, **Cleveland**—Cleveland Lithuanian Catholics plan clubhouse on East 67th St. and Edna Ave., N. E. Estimated cost, $100,000.

Ohio, **Cleveland**—Plans prepared by George F. Hammond, Arch., for ten-story addition to Gillsy Hotel. Estimated cost, $150,000.

Ohio, **Cleveland**—Plans prepared by J. Milton Dyer, Arch., 825 Cuyahoga Bldg., for hotel for John W. Schuster, 1833 East 12th St. Estimated cost, $250,000.

Ohio, **Cleveland**—Plans being prepared by Knox & Elliott, Arch., for coliseum for J. A. Wigmore & Co., 1330 Williamson Bldg. Estimated cost, $150,000.

Ohio, **Cleveland**—Rev'sed plans being prepared by O. K. Stapf, Rose Bldg., Cleveland, for three-story addition to Chamber of Industry Building at Franklin and West 25th St. Estimated cost, $40,000. Noted Aug. 26.

Ohio, **Dayton**—Bids will be asked in about thirty days by Albert Pretzinger and Edward P. Mussleman, Arch., 1155 Reibold Bldg., for building for B. P. O. E., Lodge No. 56. Estimated cost, $75,000.

Ohio, **Toledo**—Plans being prepared by H. L. Ottenheimer, Arch., 105 West Monroe St., Chicago, for temple at Scottwood and Acklin Ave. Estimated cost, $75,000.

Ohio, **Washington C. H.**—Baltimore & Ohio Southwestern R.R. is having plans prepared for new station. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio, **Woodsfield**—Citizens, according to press reports, will build school. Estimated cost, $50,000.

Ohio, **Youngstown**—Salvation Army contemplates industrial relief building. Estimated cost, $40,000.

Ind., **Aurora**—Baltimore & Ohio Southwestern R.R. is having plans prepared for station at Aurora. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ind., Logansport—David Maurice, J. Balf and others, Lafayette, will build five-story hotel at Third St. and Broadway. Estimated cost, $100,000.

Ind., Owensville—Bids will be received about Nov. 1 by Jacob W. Mauck, Township Trustee, for two-story and basement, 105x175-ft. school. Estimated cost, $65,000. J. W. Gaddis, Vincennes, Arch.

Ind., Richmond—Citizens plan school at estimated cost of $80,000.

Ind., Terre Haute—Board of School Trustees will have plans prepared for school at 25th St. and Fourth Ave. and for school on Kafader site. Estimated cost, $200,000.

Ind., Terre Haute—(Official)—Bids will be received until 3 p.m., Oct. 15, by A. H. Hubbard, care of William K. Hamilton, Terre Haute, for masonic temple. Estimated cost, $90,000. Noted Sept. 23.

Mich., Detroit—Louis Kamper, Detroit, preparing plans for ten-story building at 35 Washington Bldg. for J. B. Book, Jr., Detroit.

Mich., Detroit—(Official)—Bids will be received until 4:15 p.m., Oct. 12, by Charles A. Gadd, Secy., Bd. of Education, for 20-room school on Central and Honorah Ave.

Ill., Chicago—First Baptist Church, 38th St. and South Park Ave., and Immanuel Baptist Church will build church on site of present Immanuel church. Estimated cost, $500,000.

Ill., Chicago—Bids will be received about Oct. 10 for five-story, 400x800-ft., brick and stone building for Pennsylvania R.R. Co. Price & McLanahan, Philadelphia, Penn., Arch.

Ill., Chicago—State Street Theater Co. will build theater on State St. between Jackson Blvd. and Van Buren St. Estimated cost, $600,000.

Ill., Chicago—Methodist Book Co., 1020 South Wabash Ave., will build four-story office building at 730 Rush St. Whitelock A. Shank, Arch. Estimated cost, $200,000.

Ill., Chicago—Auburn Park Masonic Temple Association will build four-story and basement store and lodge. Estimated cost, $100,000.

Ill., Forreston—Winnebago County Board of Supervisors voted $190,000 bonds for improvements and addition to court house. A four-story addition will be built.

Ill., Monmouth—(Official)—Bids will be received until Oct. 20 by W. W. Brent, City Clk., for city hall. Temple & Burrows, Davenport, Iowa, Arch. Noted Aug. 26.

Ill., Rock Island—Bids will be received about Oct. 8 by Board of Education for three-story, 82x130-ft. school at Ninth St. and 12th Ave. Olof Z. Cervin, Arch. Noted July 29.

Ill., Sterling—County Supervisors of Winnebago County authorized addition to Rockford court house at estimated cost of $200,000.

Wis., Faycheedah—State Control Board plans to build reformatory for women. Estimated cost, $175,000.

Wis., Milwaukee—Board of Education will build two-story brick school. Estimated cost, $78,000.

Wis., Superior—Plans being prepared by Van Ryn & De Gelleke, Milwaukee, for three-story and basement training school for State Board of Normal Regents. Estimated cost, $80,000.

Iowa, Mason City—A. L. Rule contemplates seven-story business building. Estimated cost, $200,000.

Iowa, Nevada—Citizens voted $90,000 bonds for new school and for remodeling high school.

Iowa, Rock Rapids—Bids will be received until 9 a.m., Oct. 18, by E. J. Riegel, County Audr., for three-story and basement court house. Joseph Schwartz, Sioux Falls, S. D., Arch.

Iowa, Waterloo—Sacred Heart Church Congregation contemplates parochial school. Estimated cost, $50,000.

Kan., Wellington—Construction of $50,000 Y. M. C. A. building contemplated. G. A. Holliday, Secy.

Kan., Wichita—Board of Education contemplates school Estimated cost, $100,000.

Neb., Clearwater—Bids will be received until noon, Oct. 12, by F. F. Hansen, Secy. School Bd., for high school. R. A. Bradley & Co., Hasting, Arch.

Neb., Hastings—Bids will be received about Oct. 15 by C. W. Way Co., Arch., Hastings, for four-story, 44x120-ft. moving picture theater and office building for William Brach.

S. D., Brookings—Bids will be received until 10 a.m., Oct. 19, by State Board of Regents, State College, for four-story brick dormitory for State College. Joseph Schwarz, Sioux Falls, Arch.

Mont., Butte—Bids will soon be received by Max Daniels, Butte, for motion picture theater for W. H. Swanson, Salt Lake City, Utah. Estimated cost, $200,000.

Mo., Kansas City—Plans prepared by Smith, Rea & Lovitt, Finance Bldg., Kansas City, for one-story and basement, 49½x113½ ft., reinforced-concrete building at 14th and Main St. for Crow-Van Evera Realty Co.

Mo., St. Joseph—Bids will soon be received for Junior high school at Fourth and Highland Ave. R. Meyer, Lincoln Bldg., Arch. Estimated cost, $125,000.

Mo., St. Joseph—Bids will be received until Oct. 28 for three-story, 60x120-ft. office building at Seventh and Francis St. for W. F. Kirkpatrick, 721 Felix St. Walter Boschen, Tootle-Lemon Bank Bldg., Arch. Estimated cost, $50,000.

Mo., St. Louis—City plans election to vote on $450,000 for industrial school and tuberculosis hospital.

Mo., St. Louis—Columbia Novelty Co. secured site at 12th and Clinton St. and will build motion-picture theater.

Ark., Pine Bluff—Frank Blaisdell, Little Rock, preparing plans for Catholic Church. Estimated cost, $50,000.

Tex., Corsicanna—Contract awarded to J. C. JOPLIN & BRO., Beatty Bldg., Houston, at $70,658, for dining hall for State Orphans' Home. Noted Sept. 23.

Tex., Dallas—Edgar Zielian, Dallas, preparing plans for apartment hotel. Estimated cost, $500,000.

Tex., El Paso—Plans being prepared by Gibson & Albertson, Arch., for building for Mt. Franklin Country Club near El Paso. Estimated cost, $40,000.

Tex., El Paso—Plans being prepared by Trost & Trost, El Paso, for nine-story, 30x140-ft. reinforced-concrete hotel for Z. T. White. Bids will be received about Jan. 1. Estimated cost, $150,000.

Tex., Lubbock—(Official)—Citizens voted in favor of $100,000 bonds for court house. E. R. Haynes, County Judge. Noted Sept. 9.

Tex., Marlin—Citizens voted in favor of $120,000 bonds for high school and sewer system.

Tex., Nacogdoches—Bids will be received until Oct. 12 by F. H. Tucker, Pres., Bd. of Education, for high school and addition to ward school. Estimated cost, $45,000. Noted Sept. 9.

Tex., San Angelo—C. H. Powell and associates plan new hotel. Estimated cost, $200,000.

Okla., Norman—Bids will be received until Oct. 27 for four-story and basement, 60x120-ft. science hall for University of Oklahoma. J. W. Hawk and J. O. Parr, Oklahoma City, Archs. Estimated cost, $100,000. Noted Aug. 12.

Ariz., Flagstaff—Bids will soon be received for dormitory at Northern Arizona Normal School by Normal School Board. Estimated cost, $48,000.

Wash., Seattle—Plans being prepared by J. Kingsley, Arch., 1260 Empire Bldg., for addition to Seward School for Board of Education.

Wash., Seattle—Bids being received for two-story and basement settlement home for Council of Jewish Women, 18th Ave., S. and Main St. Marcus B. Pretica, Pantages Theater Bldg., Arch. Estimated cost, $50,000.

Wash., Seattle—Bids will be received until Oct. 27 by Board of Regents, University of Washington, for university building. Estimated cost, $150,000.

Ore., The Dalles—Masonic Lodge will rebuild temple which was recently destroyed by fire. Estimated cost, $100,000.

Calif., Los Angeles—J. Martin Haenke & Co., Van Nuys Bldg., preparing plans for additional buildings for Huntington School for Girls, Oneonta Park. Florence and Mary Housel, owners.

Calif., San Francisco—Cogswell Polytechnic College will rebuild its building at 26th and Folsom St. Estimated cost, $105,000.

Calif., Ventura—Bids will be received until noon, Oct. 18, by W. F. McClure, State Engr., Sacramento, for two cottages and detention building at California School for Girls.

Ont., Scarborough—Scarborough Township will build school. Estimated cost, $40,000.

Ont., Toronto—Board of Education plans school on Bledhill Ave. Estimated cost, $55,395.

Ont., Toronto—Canadian Pacific Ry. Co. will build station at North Toronto. Estimated cost, $125,000. J. T. Arundel, Toronto, Supt.

Ont., Toronto—Standard Oil Co., represented in Canada by Imperial Oil Co., will build eight-story office building at Church and Court St.

Ont., Toronto—Board of Education granted permit for school on Bartlett Ave. Estimated cost, $52,900.

Alta., Cardston—Citizens will build school. Estimated cost, $50,000. James W. Low, Treas.

Bids In and Contracts Awarded

N. H., Jaffrey—Contract awarded to McNALLY BUILDING CO., Gardner, Mass., at about $40,000, for high school.

N. H., Portsmouth—Contract reawarded to LORD & PERKINS, Berwick, Maine, at about $50,000, for 2½-story brick children's home for Chase Home for Children. Noted Sept. 16.

Mass., Brighton—Contract awarded to McGAHEY O'CONNOR, Main St., Cambridge, at about $200,000, for two-story and basement, 87x152-ft., brick school for St. Anthonys Church.

Mass., Dorchester—Contract awarded to JOSEPH M. DOLAN, 194 Sydney St., Cambridge, for parochial school for St. Georges Church.

Mass., Easthampton—Contract awarded to H. WALES LINES CO., Meriden, Conn., at about $175,000, for dormitory and service building for Williston Seminary.

Mass., Gardner—Contract awarded to JOSEPH GARNEAU BALDWINVILLE, Pembleton, at $150,000, for two-story and basement, 85x105-ft., brick store and office building for Robichaud & Mountain, Gardiner.

R. I., Providence—Contract awarded to O. D. PURINGTON & CO., 625 Industrial Trust Bldg., at about $80,000, for alterations to store for M. Misch, Misch Bldg., Providence.

R. I., Providence—(Official)—Contract awarded to NORCROSS BROS. CO., Worcester, Mass., for Central Baptist Church at Wayland and Lloyd Ave. Estimated cost, $150,000. Noted Sept. 23.

N. Y., Cortland—Contract awarded to MITCHELL REYNOLDS CO., Binghamton, at $10,000, by Cortland Carriage Goods Co.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract awarded to EDWIN OUTWATER, INC., 18 East 41st St., New York, at $150,000, for seven-story, 75x100-ft. storage building for Kirkman Sons Co.

N. J., Newark—Contract awarded to HEDDEN CONSTRUCTION CO., at about $60,000, for two-story office building at 773 Broad St. for Prudential Insurance Co.

Penn., Philadelphia—Contract awarded to ABEL BOTTOMS & SONS CO., 41 South 15th St., at $60,000, for three-story and basement, 32x65-ft. school at 30th and Gordon St. Noted Sept. 23.

Penn., **Riverside**—Contract awarded to L. H. PECHT & SONS at about $25,000 for two-story, 99x130-ft., brick factory for Carpenter Steel Co.

Md., **Baltimore**—Contract awarded to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., Baltimore, for Hess Memorial Dispensary at Madison St. and Rutland Ave. for Hebrew Hospital. Estimated cost, $40,000.

Ohio, Akron—(Official)—Contract awarded to HUNKER-CONKEY CONSTRUCTION CO., Cleveland, at $175,000, for four-story, 125x145-ft. club house for Firestone Tire & Rubber Co. Noted Sept. 30.

Ohio, Cincinnati—Bids were received by Board of Education for new East Side High School from: Ferro Concrete Construction Co., Cincinnati, $452,519, and Ohio Building Co., $458,860. Noted July 29 and Sept. 16.

Ohio, Cleveland—Contract awarded to REAUGH CONSTRUCTION CO., 2835 East 51st St., Cleveland, at $45,000, for office and warehouse at East 79th St. and St. Clair Ave. for White Sewing Machine Co. Noted Sept. 16.

Ohio, Columbus—Contract awarded to AUGUST ROEHR, Bucyrus, at about $40,000, for two-story addition to Indianola Methodist Episcopal Church at 1887 Summit St.

Ohio, Dayton—Bids were received Sept. 16 by Board of Education for two-story addition to Steele High School as follows: J. Albert Berry, Dayton, $49,575; Structural Concrete Co., Dayton, $46,900, and Ernest Kroemer, Dayton, $44,743.

Ohio, Richwood—Contract awarded to FRANKLIN CONSTRUCTION CO., Columbus, at about $40,000, for school.

Ohio, Steubenville—(Official)—Contract awarded to JAMES A. COYNE, Steubenville, at $63,107, for school. Noted Sept. 2.

Mich., Grand Rapids—(Official)—Contract awarded to HOMER & KELLY, Grand Rapids, at $88,293, for armory for Grand Rapids Battalian. Noted Sept. 26.

Ill., Oblong—Contract awarded to N. S. INKERD, Bedford, Ind., at $46,409, for three-story and basement school by School Board.

Wis., Monroe—Contract awarded to WAGNER & BAUMANN, Monroe, at $53,835, for two-story, 75x115-ft. brick school.

Iowa, Des Moines—Board of Education awarded contract for new dental building to CHARLES FRANKLIN, Iowa City, at $130,800.

Iowa, Grundy Center—Contract awarded to STANDARD CONSTRUCTION CO., Minneapolis, Minn., at $61,000, for school. Noted Aug. 19.

Iowa, Waterloo—Contract awarded to M. BLITSCH for 137x150-ft. warehouse at Center St. and Fairview Ave. for Iowa Real Estate and Investment Co. Estimated cost, $30,000.

Minn., Maynard—Contract awarded to EMIL JOHNSON, Minneapolis, at about $40,000, for three-story school. Noted Sept. 16.

Mont., Glasgow—Contract awarded to G. W. Bell, at about $75,000, by Rundle Land & Loan Co. for three-story, 90x130-ft. brick and concrete business building on Second Ave.

Mo., Kansas City—Contract awarded to FOGEL CONSTRUCTION CO., 515 Reliance Bldg., for five-story reinforced-concrete building at 1600 Oak St. for Southwest News Co., 410 East Ninth St.

Okla., Tulsa—Contract awarded to CHRISTOPHER & SIMPSON, St. Louis, Mo., at about $250,000, for ten-story building at Fourth and Boston St. for S. Gallais.

Wash., Medical Lake—(Official)—Contract awarded to BOYAJOHN-ARNOLD CO., Panama Bldg., Portland, Ore., at $227,000, by State Board of Control for building for Feeble Minded. Noted Sept. 16.

Wash., Seattle—Contract awarded to A. W. QUIST, Hoge Bldg., at about $55,000, for four-story, 45x108-ft., business block for Puget Sound News Co. at Second and Virginia St. Noted July 29.

Wash., Vancouver—(Official)—Contract awarded to S. C. ERICKSON, Tacoma, at $58,654, by Board of Control, Olympia, for state school for blind. Noted Sept. 16.

Calif., Oroville—Contract for Hall of Records for Butte County awarded to WESTERN BUILDING & ENGINEERING CO., San Francisco, at $43,843

Calif., Sacramento—Contract awarded to W. E. KIER CONSTRUCTION CO., American National Bank Bldg., San Diego, at $34,999, for two patients cottages at State Engineering Department.

Ont., Toronto—Contract awarded to PETER LYLE CONSTRUCTION CO., Montreal, Que., for Union Station on Front St. Estimated cost, $3,000,000. M. Griffiths, Supt.

The Austin-Western Road Machinery Co., with general offices in the Karpen Bldg., Chicago, Ill., has opened an office at 314 Bulletin Bldg., Philadelphia, Penn. E. M. Terwilliger has been placed in charge.

The American Locomotive Co., 30 Church St., New York, N. Y., at the last meeting of the Board of Directors appointed J. O. Hobby, Jr., as Treasurer.

The General Waterproofing Co., of Pittsburgh, Penn., has been recently incorporated and has begun business with offices at 550 Century Bldg. The company will sell materials for use in waterproofing work and its contract department will execute work under contract or supervision on all classes of waterproofing construction in general building operations. H. E. Hollingsworth, formerly on the engineering staff of the Palisades Interstate Park Commission at New York City, is Vice-Pres. and Gen. Mgr. of the company.

The Pedrick Tool & Machine Co., 3640 North Lawrence St., Philadelphia, Penn., has recently purchased the business of the Sterling Machine Works, manufacturers of tool grinders, and will continue the business after a reorganization.

RECLAMATION PROJECTS FOR 1916

The funds apropriated by Congress for reclamation projects during the fiscal year 1916 have been apportioned to the various projects by the Reclamation Service to the amount of $10,948,834.69. To each project has been allotted the amount of money necessary to carry on this work economically during the period from July 1 1915, to June 30, 1916, as follows: Salt River project, Ariz., $537,054; Yuma project, Ariz-Calif., $659,560; Orland project, Calif., $70,195; Grand Valley project, Colo., $561,284; Uncompahgre project, Colo., $375,423; Boise project, Idaho, $1,039,943; Minidoka project, Idaho, $328,163; Jackson Lake Enlargement, Idaho-Wyo., $475,713; Garden City project, Kan., $1,592; Huntley project, Mont., $120,008; Milk River project, Mont., $422,322; St. Mary Storage, Mont., $473,852; Sun River project, Mont., $719,940; Lower Yellowstone project, Mont.-N. D., $46,923; North Platte project, Neb.-Wyo., $272,053; Ft. Laramie Unit, Neb.-Wyo., $644,231; Truckee Carson project, Nev., $190,069; Carlsbad project, N. M., $102,379; Hondo project, N. M., $4,038; Rio Grande project, N. M., $404,570; Elephant Butte Storage, N. M., $607,387; North Dakota pumping project, N. D., $20,034; Lawton project, Okla., $40,022; Umatilla project, Ore., $294,751; Klamath project, Ore.-Calif., $164,863; Belle Fourche project, S. D., $143,949; Strawberry Valley project, Utah, $392,944; Okanogan project, Wash., $51,008; Yakima storage, Wash., $559,731; Yakima-Sunnyside Unit, $278,076; Tieton Unit, Wash., $51,959; Shoshone project, Wyo., $419,299. Total for primary projects, $10,473,350.26.

In addition the following allotments were made for preliminary investigations, secondary projects: Colorado River Basin, Ariz.-Calif., $25,000; Iron Cañon Coöperation, Calif., $25; Pitts River coöperative work, Calif., $25; Shasta County coöperative work. Calif., $100; Lassen Colunty coöperative work, Calif., $50; General, investigations, Calif., $5,000; Walker River Investigations, Nev., $50; Columbia River coöperation, Ore., $7,500; Pecos River Investigation, Tex., $900; unallotted to specific investigations, $11,325. Total for secondary projects, $50,000.

On July 1, 1915, there were available for immediate expenditure from the bond loan and reclamation fund $10,198,769.44. The expected accretions to the fund from July 1, 1915, to June 30, 1915, will bring this amount up to $17,198,769.44.

CATALOG NOTICES

Busch-Suler Bros. Diesel Engine Co., St. Louis, Mo. Pamphlet. Appleton (Wis.) water works. Combined filtration and Diesel engine pumping station. Illustrated, 20 pp., 7x10 in.

Wettlauer Bros., 99 Oak St., Buffalo, N. Y. Circulars. Heart-shaped mixers for concrete, mortar or plaster. Illustrated.

A. D. Granger Co., 90 West St., New York. Bulletin No. 2. Oswego internally fired water tube boilers. Illustrated, 16 pp., 8x10½ in.

Sullivan Machinery Co., 122 South Michigan Ave., Chicago, Ill. Bulletin No. 72. Sullivan drill sharpener. Illustrated, 24 pp., 6x9 in.

The Brown Hoisting Machinery Co., Cleveland, Ohio. Catalog U. Brownhoist transfer cars and larries. Illustrated, 32 pp., 6x9 in.

Blaw Steel Construction Co., Pittsburgh, Penn. Folder. Blaw steel forms for concrete construction. Illustrated.

Detroit Steel Products Co, Detroit, Mich. Catalog. Lumina solid steel windows, doors and partitions. Illustrated, 48 pp., 8½x11 in.

The Electric Storage Battery Co., Philadelphia, Penn. Hand Book H L. Low voltage isolated electric light and power plants with the Chloride Accumulator. Illustrated, 52 pp., 6x9 in.

Trussed Concrete Steel Co., Youngstown, Ohio. Catalog. Kahn Mesh for reinforcing concrete. Illustrated, 32 pp., 5½x8 in. Bulletin. Fireproof floors and bearing partitions of pressed steel construction. Illustrated, 16 pp., 8½x11 in.

Morse Chain Co., Ithaca, N. Y. "Chain of Evidence." Publication No. 14. Large Power Drives. Illustrated, 20 pp., 6x9 in.

James B. Clow & Sons, Harrison Street Bridge, Chicago, Ill. Catalog. "Wasting a Million A Day—How to Save It." Plumbing fixtures for industrial purposes. Illustrated, 52 pp., 9x12 in.

Austin Bros., Dallas, Tex. Catalog and Handbook. Road-making machinery, steel bridges, structural steel, metal culverts, tanks, etc. Illustrated, 280 pp., 4½x7 in.

Robert W. Hunt & Co., 2200 Insurance Exchange, Chicago, Ill. Series of Booklets. Specifications for highway bridges, paving brick, Portland cement, adopted by the American Society for Testing Materials. Specifications for creosoted wood blocks, adopted by the Association for Standardizing Paving Specifications. Specifications for steel rails.

American Well Works, Aurora, Ill. Bulletin No. 141. Methods of Constructing Large Capacity Deep Wells. Illustrated, 40 pp., 7½x10½ in.

The American Rolling Mill Co., Middletown, Ohio. Catalog. "Armco" iron rust-resisting products. Illustrated, 64 pp., 6x9 in. Pamphlet. "Defeating Rust—The Story of Armco Iron." Illustrated, 46 pp., 6x9 in.

Lansing Co., Lansing, Mich. Catalog No. 12C. Concrete mixers. Illustrated, 36 pp., 9x11 in.

Mead-Morrison Mfg. Co., East Boston, Mass. Pamphlet No. 106. Belt hoists. Illustrated, 4 pp., 6x9 in.

The Baldwin Locomotive Works, Philadelphia, Penn. Record No. 81. Triple articulated compound locomotives. Illustrated, 30 pp., 6x9 in. Record No. 82. Locomotives for export. Illustrated, 32 pp., 6x9 in.

The Tropenas Converter Co., Engineer, 50 Church St., New York, has moved to its new laboratory at 2243 Nostrand Ave., Brooklyn, N. Y. The New York office will be continued, but all business of an executive nature will be transacted at the new address.

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section Nos. 1 and 3, Route Nos. 36, 37 and 50

Bids were received Aug. 3 by the Public Service Commission for the construction of the station finish on Route No. 50 of the Queensboro Subway extension, and Section Nos. 1 and 3, Route Nos. 36 and 37, of the Corona Elevated R.R., from: (A) Snare & Triest Co., 233 Broadway, New York; (B) Marble Arch Co., 216th St. and Broadway, New York. The item bids were as follows:

	A	B
5000 lin.ft. stairways, wood, street to mezzanine	$1.00	$0.50
5700 lin.ft. stairways, wood, mezzanine to platform	1.00	.50
3400 lin.ft. stairways, iron, mezzanine to platform	2.70	1.00
1350 sq.ft. stair landings, wood, straight (street to mezzanine)	.90	.40
320 sq.ft. stair landings, wood, offset (street to mezzanine)	1.10	.40
1250 sq.ft. stair landings, mezzanine to platform	1.10	.40
650 lin.ft. straight or offset with checkered steel plate (mezzanine to platform)	1.90	1.00
31 tons steel column hangers, etc., supporting stairs	85.00	100.00
1300 sq.ft. concrete street landings	.90	.40
40 cu.yd. concrete foundations for columns	15.00	12.00
25 concrete or brick manholes	54.00	30.00
15 cu.yd. rock excavations	10.00	4.00
9600 lin.ft. oak handrails	.55	.80
6800 sq.ft. canopies over stairways	.68	.60
30 canopies over street landings	75.00	60.00
67,400 sq.ft. canopies over side train platform	.36	.60
48,600 sq.ft. canopies over island train platform	.34	.60
36,100 sq.ft. special over side platform (concrete station)	.38	.70
2000 lin.ft. type "A" railing stairs, street to mezzanine	3.75	3.50
900 sq.ft. type "B" grille railing on stairs	1.10	1.30
150 lin.ft., type "C" railing	3.30	4.00
50 lin.ft., type "D", railing	3.80	4.00
2500 lin.ft., type "E," railing around stair wells	4.50	4.00
1050 lin.ft., type "F," low level railings	4.3;	4.00
5800 sq.ft., type "G," high railing	.85	1.25
3550 lin.ft., type "K," train platform railings	4.40	4.00
70 additional high posts, 2½ in. tubing	10.50	10.00
360 lin.ft., pipe railings	1.10	2.00
40 metal screens for stove recesses	12.00	10.00
325 lin.ft., type "L," level railings	3.40	4.00
1500 lin.ft., type "M," service railings	4.30	4.00
6300 lin.ft., type "N," railings on concrete structures	1.60	4.00
4700 lin.ft. wind screen drop sash on train platform	4.70	8.00
320 sq.ft. wind screen, fixed or swing sash, including stairway	.80	1.00
10,800 sq.ft. wind screen drop sash along side track Queensborough Bridge platform	1.65	1.50
235 standards on railings on train platforms	20.00	30.00
25 free standing standards on island train platform	32.00	40.00
12 standards on concrete railings on train platform	27.00	30.00
132,200 sq.ft. wood floors on train platforms	.19	.30
12,800 sq.ft., 8-in. concrete slab floor, including water proofing, etc	.57	.70
230 sq.ft., 11½-in. concrete slab floor, including water proofing, etc	.80	1.00
100 cu.ft. non-encasing columns, beams and girders	1.00	1.00
280 cu.ft. concrete copings	.90	1.00
250 sq.ft. additional cement finish on concrete as required, section 148	.20	.12
1725 lin.ft. platform edge construction supported on street angles	.80	1.00
350 lin.ft. platform edge construction supported on wood facia	.80	1.00
100 sq.ft. water proofing protective concrete wood, etc., existing concrete slabs	.40	1.00
27,200 sq.ft. asphalt floor, including wood floor	.30	.50
4140 sq.ft. 18-in. concrete slab, 3-in. finish	.55	.50
100 sq.ft. 11½-in. concrete slab, 3-in. finish	.70	.70
7800 sq.ft. cement wainscot or base	.20	.25
27,500 sq.ft. concrete track floor over mezzanine, including water proofing rods, etc	.44	.50
250 sq.ft. flooring for passageways	.22	.60
300 ferrules for mezzanine roof, including flanges	2.20	3.00
20 trap doors or scuttles	20.00	15.00
Concrete water proofing mezzanine and track floor, west side station, section 295 (lump sum)	8,900.00	6,000.00
80,000 sq.ft., 3-in. cement floor finish	.12	.15
29,000 sq.ft. external walls of mezzanine and stairways	.90	1.50
9200 sq.ft. external walls of mezzanine and stairways	.85	1.00
20,000 sq.ft. wood partitions, including doors, windows and sheathing	.55	1.00
1000 lin.ft. copper cutters	.90	1.00
330 lin.ft. low sliding gates	9.00	8.00
85 lin.ft. high sliding gates	13.00	10.00
15 lin.ft. folding gates	11.00	8.00
15 lin.ft. high swing gates	11.00	10.00
18 exit turnstiles	240.00	150.00
30 gate controls	25.00	10.00
55 gate posts and cross frames	28.00	30.00
10 floor boxes (additional)	9.00	5.00
800 lin.ft. 1¼-in. galvanized w.i. pipe for gate robes	.30	.20
6600 lin.ft. 3-in. corrugated galvanized iron leaders	.28	.30
240 lin.ft. 13-in. c.i. leaders in place	.60	.30
90 lin.ft. 3-in. w.i. leaders in place	.80	.50
1800 lin.ft. 13½-in. wi.i. leaders in place	.85	.60
460 lin.ft. 3-in. copper leaders in place	.55	.50
1650 lin.ft. smoke flue from stove recesses in place	.60	.50
215 lin.ft. smoke flue protectors on platforms	1.00	.60
2 tons steel framing shapes, connections	90.00	100.00
15 tons riveted steel girders, columns and brackets	74.00	100.00
450 lb. steel for expansion joints, street connecting stations	.10	.10
200 lin.ft. steel ladders	1.50	2.00
60 sq.ft. steel ladders, platforms	1.00	1.00
7000 drill holes in steel existing structure	.25	.15
350 sq.ft. frames for enameled signs on mezzanine	1.60	3.50
4 frames and reflectors, Type "A," illuminated sign on brackets attached to columns	50.00	25.00
940 sign frames on train platform railings	1.30	3.00
50 sign frames suspended from canopies	16.00	20.00
25 sign frames illuminated N. Y. I.'s train platform, including seat	170.00	20.00
4600 sq.ft. enameled sign plates	.35	.50
20 frame and reflectors, type "B," illuminated sign on brackets attached construction structure	45.00	20.00
26 sign frames, illuminated N. T. I.s' platform, including shields	165.00	20.00
7000 sq.ft. non-slip treads without wood blocks and anchors	.90	.80
3000 sq.ft. non-slip treads with wood blocks and anchors	.95	1.00
1350 sq.ft. stamped sheet steel in booths on mezzanine	.14	.20
50 sq.ft. metal lath without steel furring	.14	.10
3200 sq.ft. metal lath with steel furring	.20	.10
2, type "B," ticket booths in place	420.00	1,800.00
6, type "BB," ticket booths in place	775.00	1,800.00
5, type "D," ticket booths in place	520.00	1,800.00
4, type "E," ticket booths in place	520.00	1,800.00
4, type "G," ticket booths in place	260.00	1,800.00
4, type "KK," ticket booths in place	260.00	1,800.00
475 lin.ft. oak seats in waiting rooms	3.00	2.00
70 doors, type "GG," for toilet stalls	12.00	10.00
200 hardware doors to toilet room, waiting room and closets	20.00	10.00
25 hardware permanent enclosures between stations	8.00	10.00
270 double hung sash	3.00	4.00
675 casement sash in mezzanine, except in ticket booths	4.60	4.00
100 casement sash in ticket booths enclosed and enclosure between stations	4.00	4.00
320 sliding sash	1.00	3.00
2750 drop sash	1.00	2.00
220 hinged sash (top and bottom)	2.50	2.00
62 toilet stall doors, type "G"	10.00	5.00
69 doors to panel boards and switch board boxes	2.00	5.00
40 vent doors	2.00	5.00
10 on swing doors for transformer columns under t. p.	2.00	5.00
110 additional hardware door checks	3.30	4.00
100 door stops	1.55	2.00
60 rubber covered chains	1.20	1.00
60 push plates	1.85	3.00
60 door pulls	2.55	4.00
100 kick plates	6.00	7.00
100 push bars	4.50	1.00
130 casement sash adjusted for single sash	2.30	5.00
120 casement sash adjusted for gang of 2 sash	2.60	8.00
10 casement sash adjusted for gang of 3 sash	11.00	10.00
20 casement sash adjusted for gang of 4 sash	13.50	12.00
20 casement sash adjusted for gang of 5 sash	16.00	13.00
35 casement sash adjusted for gang of 6 sash	18.40	14.00
45 window guard rods	1.40	20.00
4670 sq.ft. plaster coat on mastic and second coat on metal lath	.90	.50
1850 sq.yd. first or scratch coat on metal lath	.50	.40
2500 sq.yd. stucco finish on soffits and sides of stairways at concrete station	1.50	1.00
290 cu.ft. common brick	.40	1.00
13,300 cu.ft. hollow terra cotta tile	.37	.50
36 concrete stove recess, including all appurtenances excepting metal screen	32.00	50.00
3830 sq.ft. 5-in. glass wainscoting and trim on walls	1.30	2.00
775 sq.ft. 2-in. glass pipe chamber partitions	1.60	2.00
85 sq.ft. 2-in. glass shelves	1.60	2.00
1470 sq.ft. 2-in. stall partitions	1.50	2.00
230 sq.ft. 1-in. glass floor slabs	2.50	2.00
760 lin.ft. curved corners and angles of glass	1.50	2.00
60 sq.ft. soapstone wainscoting and trim on walls	1.10	1.00
280 sq.ft. soapstone pipe chamber partitions	1.30	1.00
50 sq.ft. soapstone shelves	1.30	1.00
190 sq.ft. stall partitions	1.20	1.00
20 sq.ft. soapstone floor slabs	1.50	1.00
30 lin.ft. curved corners and angles of soapstone	1.00	1.00
8650 sq.ft. copper covered walls, including windows and doors	.90	1.00
10,000 sq.ft. crimped galvanized iron on walls and ceilings	12½	.10
140 sq.ft. galvanized wire screens	.50	.20
3650 sq.ft. concrete floor with cement finish	.40	.50
10 galvanized iron roof vents	12.00	10.00
4000 sq.ft. roof	.50	.60
200 lin.ft. copper gutters	.90	1.00
875 sq.ft. partition walls	.60	.40
180 sq.ft. wood floor	.30	.25
23,000 cu.ft. portable enclosures between stations	.21	.25
600 sq.ft. wood flooring passageways adjusted to enclosure	.20	.50
50 wood ladders end of platforms	2.50	10.00
71 plumbing fixtures for water closet bowls	57.00	20.00
50 lavatories in stations	41.00	20.00
6 lavatories in enclosures between stations	38.00	20.00
54 urinals	86.00	100.00
28 slop sinks	63.00	30.00
8 floor drains	15.00	10.00
Rough plumbing work complete, all stations (lump sum)	22,000.00	13,000.00
Rough plumbing work complete, all enclosures between stations (lump sum)	15,000.00	6500.00
170 c.i. work in toilet rooms and portable clothing posts	15.00	10.00
420 lin.ft. top rails	1.00	1.00
10 wall flanges	1.50	1.00
40 regulation faces and frames in pipe chamber partitions	10.00	5.00
15 c.i. vent louvres in walls of portable closets	15.00	5.00
7500 lb. glass and soapstone steel supports	.07	.20
75 coat and hat hooks in toilet rooms	1.00	.20
52,100 lin.ft. electric conduits, ¾-in.	.14	.20
5600 lin.ft. electric conduits, 1 in.	.17	.25
6400 lin.ft. electric conduits, 1¼ in.	.20	.30
1970 lin.ft. electric conduits, 2 in.	.30	.40
100 lin.ft. electric conduits, 2½ in.	.40	
100 lin.ft. electric conduits 3 in.	.51	.70
1750 lin.ft., ¾-in. flexible conduit	.20	.20
5 place porcelaine ferrules in extended masonry walls	1.00	5.00
10 place preelaine ferrules in extended masonry walls, other than masonry walls	1.00	5.00
4250 c.i. outlet boxes	1.00	1.00
38 6 in. x 6 in. x 6 in. c.i. pull boxes	3.00	4.00
12 12-in. x 12-in. x 6-in. c.i. pull boxes	7.50	6.00
18 18-in. x 12-in. x 6-in. c.i. pull boxes	9.50	9.00
2 24-in. x 18-in. x 6-in. c.i. pull boxes	18.50	15.00
75 6-in. x 6-in. x 4-in. c.i. pull boxes	2.60	1.00
15 13-in. x 20-in. x 4-in. c.i. pull boxes	13.80	15.00
20 c.i. heater boxes	14.00	15.00
2 25-in. x 60-in. by 5½-in. steepanel board box	16.00	20.00
31 25-in. x 48-in. x 5½-in. steel panel board box	14.00	20.00
22 25-in. x 36-in. x 5½-in. steel panel board box	12.00	20.00
12 25-in. x 24-in. x 5½-in. steel panel board box	11.00	20.00
2 steel switch board boxes	15.00	50.00
184,400 sq.ft. painting, 2-coat work on plaster and cement surface	.01½	.02
Extended totals	$609,885	$735,930

Construction News

SEPTEMBER BUILDING OPERATIONS

Reports for building operations during the month of September show a wonderful increase over the same period of last year, the percentage of gain being slightly over 30%. The only section of the country in which no increase was shown was the Western states and this no doubt is due to the large amount of buildings completed for the exposition last year.

In the Eastern states building operations for the first nine months of the year as compared with the same period of last year show a $9,000,000 increase. In all other sections there has been a decline, especially is this noted in the Western states where there is a falling off of over $34,000,000.

In the following table is given the estimated cost of contemplated buildings from plans filed with the various building inspectors:

EASTERN STATES

	Month of September 1915	1914	First Nine Months of Year 1915	1914
Albany, N. Y.	$340,965	$267,325	$3,019,460	$5,323,475
Baltimore, Md.	595,393	577,692	.....	.....
Boston, Mass.	2,582,417	546,179	18,770,726	14,815,623
Bridgeport, Conn.	720,260	314,890	6,834,647	2,948,036
Buffalo, N. Y.	987,000	761,000	9,253,000	9,260,006
Elizabeth, N. J.	93,834	72,309	875,423	1,051,622
Hartford, Conn.	349,250	129,010	4,083,878	3,000,356
Hoboken, N. J.	9,080	10,000	575,044	740,727
Jersey City, N. J.	224,112	154,467	3,775,617	2,974,116
Newark, N. J.	662,458	231,660	6,457,568	8,671,940
New Bedford, Mass.	462,550	462,225	2,797,104	2,515,027
New Haven, Conn.	1,478,499	431,610	5,574,822	3,337,802
New York N. Y.				
Bronx	1,224,800	1,156,300	20,555,050	18,439,268
Brooklyn	3,495,913	3,206,660	14,445,620	33,099,510
Manhattan	3,739,850	5,109,050	54,732,150	39,600,090
Queens	1,330,175	1,172,540	16,129,186	15,216,085
Passaic, N. J.	96,162	20,860	870,522	774,164
Paterson, N. J.	120,581	72,783	1,221,424	1,373,198
Philadelphia, Penn.	4,731,670	1,811,250	31,451,625	30,221,630
Portland, Maine	122,850	25,020	1,270,129	971,615
Reading, Penn.	62,875	47,150	883,300	1,090,350
Rochester, N. Y.	564,845	666,554	6,856,810	7,570,636
Springfield, Mass.	312,510	255,016	4,418,549	4,281,205
Syracuse, N. Y.	302,315	219,085	3,301,757	2,199,540
Utica, N. Y.	78,565	215,525	1,587,655	1,332,570
Worcester, Mass.	592,735	181,115	3,572,206	3,979,259
Totals	$25,281,664	$18,117,275	$223,312,272	$214,787,850

SOUTHERN STATES

	Month of September 1915	1914	First Nine Months of Year 1915	1914
Atlanta, Ga.	$677,745	$170,804	$3,793,182	$4,038,536
Birmingham, Ala.	157,934	162,315	1,450,375	2,827,860
Chattanooga, Tenn.	51,165	77,387	383,963	957,007
Ft. Worth, Tex.	69,580	72,720	870,232	1,665,533
Houston, Tex.	206,510	104,042	1,283,708	3,120,049
Louisville, Ky.	506,110	267,370	3,046,845	3,734,475
Memphis, Tenn.	209,535	132,160	2,229,608	2,655,709
New Orleans, La.	315,816	159,277	2,624,290	2,329,569
Norfolk, Va.	130,842	58,731	1,407,517	1,871,146
Richmond, Va.	242,763	72,305	2,503,111	2,817,585
San Antonio, Tex.	164,535	188,123	.....	.....
Tampa, Fla.	111,975	61,210	.....	.....
Washington, D. C.	1,850,442	390,511	9,257,581	7,702,789
Totals	$4,694,952	$1,916,955	$28,850,412	$33,720,258

CENTRAL STATES

	Month of September 1915	1914	First Nine Months of Year 1915	1914
Akron, Ohio	$381,925	$267,325	$3,531,020	$3,177,530
Canton, Ohio	340,525	102,200	1,532,840	1,419,705
Cedar Rapids, Iowa	129,000	264,000	2,346,000	1,576,000
Chicago, Ill.	8,569,600	4,925,900	64,811,430	63,760,710
Cincinnati, Ohio	1,224,130	665,608	10,996,894	7,837,668
Cleveland, Ohio	2,356,620	2,132,970	24,890,299	21,672,855
Columbus, Ohio	504,710	491,725	4,103,560	4,863,256
Des Moines, Iowa	218,470	380,650	1,444,490	1,650,058
Duluth, Minn.	285,321	187,829	2,119,282	2,372,693
Grand Rapids, Mich.	205,813	427,624	2,039,316	3,172,664
Indianapolis, Ind.	1,255,792	411,628	5,578,588	6,980,469
Kansas City, Kan.	64,325	62,163	773,958	922,151
Kansas City, Mo.	778,425	565,035	7,838,750	9,105,360
Milwaukee, Wis.	2,961,938	1,162,004	9,708,502	8,187,351
Minneapolis, Minn.	945,730	881,275	12,176,951	12,924,940
Oak Park, Ill.	454,253	129,560	2,388,573	1,758,150
Omaha, Neb.	359,055	312,360	3,920,875	4,102,723
Peoria, Ill.	266,140	133,325	.....	.....
St. Louis, Mo.	800,185	519,639	8,802,482	10,422,715
St. Paul, Minn.	1,038,329	2,811,936	8,502,925	12,430,645
Toledo, Ohio	701,648	360,358	6,012,947	5,263,622
Youngstown, Ohio	164,430	459,025	1,917,467	2,534,851
Totals	$24,006,364	$17,654,139	$185,437,149	$186,136,116

WESTERN STATES

	Month of September 1915	1914	First Nine Months of Year 1915	1914
Denver, Colo.	$194,260	$1,007,130	.....	.....
Los Angeles, Calif.	828,758	1,106,064	$9,212,071	$14,280,932
Oakland, Calif.	474,203	354,262	3,773,314	3,635,321
Portland, Ore.	299,820	309,140	4,031,852	5,770,185
Salt Lake City, Utah	284,309	481,850	1,061,456	2,596,959
San Francisco, Calif.	1,086,912	830,018	10,123,475	24,991,564
San Diego, Calif.	126,347	111,231	903,294	2,684,877
Seattle, Wash.	471,615	547,190	4,431,780	10,517,160
Spokane, Wash.	145,010	42,265	957,479	3,146,633
Tacoma, Wash.	40,613	86,826	589,666	1,799,033
Totals	$3,951,847	$4,875,976	$35,084,387	$69,422,664

RAILWAYS—STEAM AND ELECTRIC
Proposed Work

Connecticut—Torrington, Thomaston Traction Co., recently incorporated, plans railway from Torrington to Thomaston, about ten miles. Hosea Mann, Pres.

New York—Long Island Ry. Co. has applied to Public Service Commission of First District for permission to build line from Flushing to Creedmoor, about 5.4 miles. J. R. Savage, Jamaica, Ch. Engr.

New York—New York Ry. Co. asked Board of Estimate, New York, for franchise for double-track line from Central Park through 86th St. to Broadway.

Virginia—Chesapeake & Ohio Ry. Co. plans branch line from Elko to James River and across Epes Island. B. T. Jellison, Richmond, Pur. Agt.

South Carolina—Chamber of Commerce, Sumter, plans electric line from Sumter to Shiloh to I. Reardon, Sumter, Secy. of Committee, and R. F. McLellan, Ch. Engr.

Florida—Central of Georgia Ry. plans to extend its line to Munson, Fla., to connect with lumber road of Stearns & Culver Lumber Co. C. K. Lawrence, Savannah, Ch. Engr.

Tennessee—Surveys made for proposed Carolina, Greenville & Northern Ry. between Bristol and Knoxville, via Kingsport, Newport and Sieverville.

Kentucky—Cincinnati, New Orleans & Texas Pacific Ry. Co. has had surveys made for double-tracking its line between Somerset and Flat Rock and from Tateville to Greenwood. C. Dougherty, Cincinnati, Ohio, Ch. Engr.

Indiana—New York Central R.R. and city of South Bend contemplate an expenditure of $3,000,000 for separating grades at 20 points in the city. G. W. Kittredge, New York, N. Y., Ch. Engr.

Illinois—Chicago, Milwaukee & St. Paul Ry. Co. at recent meeting decided to electrify all lines in west where power is available. C. F. Loweth, Chicago, Ch. Engr.

Wisconsin—Chicago & Wisconsin Valley Ry. Co. will complete its line between Portage and Madison, Wis.

Wisconsin—Citizens of Ettrick voted $75,000 bonds to aid construction of Ettrick & Northern Ry. Co. line through Ettrick and Preston to line of Green Bay & Western Ry. C. J. Van Tassell, Whitehall, Engr. Noted Sept. 9.

Wisconsin—Illinois Central R.R. plans to extend its line from Champion, Mich., to Madison, Wis. A. S. Baldwin, Chicago, Ill., Ch. Engr.

Minnesota—Duluth & Iron Range Ry. Co. will be extended to Consolidated Vermilion & Extension Co.'s Mud Creek mine. W. A. Clark, Duluth, Ch. Engr.

Minnesota—Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. contemplates line from Duluth or Mahnomen to Carrington, N. D. G. R. Huntington, Minneapolis, Gen. Mgr.

North Dakota—Bids will be received until Oct. 15 by Haynes Coöperative Coal Mining Co. for material to lay 3.4 miles of standard gage track from Haynes, N. D., to coal mine.

Michigan—Oliver H. Lau, Detroit, is back of movement to build electric railway between Pontiac and Owosso.

Montana—Great Northern Ry. Co. will commence construction in spring of line in Winnett section. F. A. Bushnell, St. Paul, Minn., Pur. Agt.

Missouri—Belleview & Western R.R. Co., incorporated to build a railway from Graniteville to Belleview, Mo. William R. Orthwein and Louis Hudson, St. Louis, incorporators.

Missouri—Kansas City Connecting Ry. Co. has applied to Supreme Court for hearing in November on construction of seven miles of track to connect trunk lines in Kansas City to Kansas City stock yards.

Missouri—Missouri Pacific Ry. plans to extend its line from Hollister south to beyond Bergman. E. A. Hadley, St. Louis, Ch. Engr.

Texas—A. R. Cradford, Normangee, and associates plan interurban railway from Beaumont to Waco, via Normangee, Madisonville, Huntsville and Cold Springs, about 200 miles.

Texas—Southwestern Traction Co. having surveys made for its proposed interurban railway between Dallas and Stephenville, via Cleburne and Glen Rose, about 100 miles. W. G. Haack, Temple, Gen. Mgr. and Pur. Agt.

-T. H. Wheelis, Chicago, Ill., and J. Y. Pearce, Ballinger, Tex., are interested in an interurban railway between Ballinger and Robert Lee, via Bronte, about 45 miles.

Oklahoma—Election contemplated by citizens of Henryetta to vote bonds for municipal street car and interurban line, about eight miles. Estimated cost, $185,000. James Liggett, interested. Noted Sept. 30.

Oklahoma—Sapulpa & Oil Field Ry. Co. has been granted franchise and will build line 14 miles long to Drumright in Cushing oil field. S. W. Barnes, Kansas City, Mo., interested.

Colorado—Arkansas Valley Ry. Co. plans to connect towns in Arkansas Valley between La Junta and Cripple Creek with electric line. H. M. Byllesby Co., Chicago, Ill., interested.

Utah—Alta Consolidated Ry. Co. will build narrow gage railway in Utah. H. B. Cole and George Ford, Salt Lake City, interested.

Arizona—Atchison, Topeka & Santa Fé Ry. will soon award contract for branch line from Seligman to Gagdad, tapping Hillside mining district. J. A. Jaeger, Prescott, Ch. Engr. Noted Sept. 16.

California—Board of Supervisors of San Francisco has approved plans for extension of municipal railway from Tenth Ave. to Golden Gate Park, to Fourth Ave. and then to Irving St.

California—Patterson & Western R.R. Co. incorporated to build a railway in Santa Clara and Stanislaus Counties. R. J. Pratt, 3388 Clay St., San Francisco, interested.

California—Southern Pacific Co. will build branch line from Adobe Station, Tulare County, to Rocky and Magnesite Hill. Thomas Hood, San Francisco, Ch. Engr.

Bids In and Contracts Awarded

Kansas—Newton, Kansas & Nebraska R.R. awarded contract for railway from Newton through Harvey, McPherson, Dickinson, Saline, Clay and Washington Counties to NEWTON CONSTRUCTION CO. S. O. Waddell, Newton, Ch. Engr. Noted Sept. 19.

Wyoming—Contract awarded to WATT BROS., Upton, for completing railroad grade into Clearmont.

Oklahoma—Beaver, Mead & Englewood R.R. Co. awarded contract for extension of line from Beaver to Forgan to BEAVER CONSTRUCTION CO.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Corning—Construction of reservoir to utilize waters of Lake Wayne and Lamoka and hydro-electric plant on shores of Lake Keuka to furnish electricity to Corning, about 24 miles distant, and Hammondsport contemplated. A dam will be constructed on David Smith farm near Savona and electricity transmitted to Savona, Campbell, Bath and other places. Robert O. Hayt, Corning, Engr.-in-Charge.

Penn., Bally—Citizens voted $6000 bonds for municipal electric-light plant.

Md., Salisbury—Eastern Shore Gas & Electric Co., Delaware, has acquired properties of Salisbury, Light, Heat & Power Co., Salisbury, and Cambridge Gas, Electric-Light & Power Co., Cambridge. Plans being considered for extending power plant and transmission lines.

W. Va., Hinton—Plans being considered by Virginia-Western Power Co. for steam electric plant near Hinton to supply electricity to various towns.

N. C., Lenoir—Construction of hydro-electric plant at Poovey Shoals contemplated by Citizens Light & Power Co.

S. C., Orangeburg—See item under "Water Works."

Ga., Cumberland Springs—(Tullahoma post office)—Cumberland Springs Co. contemplates electric-light plant.

Ga., Nicholls—See item under "Water Works."

Ga., Summit—Citizens of towns of Summit and Graymont, Emanuel County, voted $5000 bonds for electric-light plant. Noted Sept. 9.

Ala., Gadsden—Construction of municipal electric-light plant contemplated. W. G. Bellenger, Mayor.

Ohio, Cleveland—A site at East 55th St. and New York Central R.R. secured by Cyclone Woven Wire Fence Co., on which they will build power block. Estimated cost, $150,000.

Ohio, Elyria—Lorain County Engineering Co. submitted report to City Council estimating cost of municipal electric plant at about $200,000.

Ind., Bicknell—Company being organized to construct light and power plant at Apraw Falls. A. L. Brockssmith, interested.

Ind., Goshen—Hawks Electric Co., contemplates new power plant. Estimated cost, $40,000.

Iowa, Ft. Dodge—Burns & McDonnell, Consult. Engr., Scarritt Bldg., Kansas City, Mo., preparing plans for dam in Des Moines River in connection with hydro-electric power plant for Ft. Dodge.

Minn., Bertha—Franchise granted to Bottenmiller Co. for electric-light plant in Bertha.

Minn., Claremont—Claremont Electric-Light Co., granted a franchise for electric-light plant.

Kan., Ford—Municipal electric-light plant and water system contemplated by Commercial Club.

Kan., Havensville—Bonds for $8,000 voted by citizens for transmission line and electric-light system. Noted Sept. 23.

Mont., Terry—Franchise granted to L. H. Gaffney for electric-light plant.

Mo., Bevier—Citizens will vote on bond issue for improving and extending lighting system. Estimated cost, $10,000 to $15,000.

Mo., Columbia—Capacity of electric-light plant will be increased.

Ark., Tuckerman—Construction of electric-light plant contemplated.

Tex., Wharton—Wharton Ice & Power Co. purchased by Texas Southern Electric Co. who plan to improve same.

Okla., Goltry—Election will be held to vote $10,000 bonds for municipal electric-light plant.

Okla., Lahoma—Plans being considered for municipal electric-light plant.

Calif., Orange—City plans municipal electric-light plant.

Ont., Chesley—By-law passed for installation of hydro-electric power and lighting system. H. S. Sanderson, Town Clk.

Ont., Hensall—Town Council plans to install hydro-electric power and lighting systems. Alexander Murdock, Town Clk.

Ont., Toronto—Northern Ontario Power Co. plans to increase capacity of plant at Porcupine. Estimated cost, $500,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of the Bronx)—(Official)—T. Frederick Jackson, 99 John St., New York, at $12,350 was low bidder for electric equipment for P. S. No. 48 on Spofford Ave.

N. Y., New York—(Borough of the Bronx)—(Official)—Bids were received Oct. 4 by Department of Education for (a) heating and ventilating apparatus, (b) temperature regulating (c) boilers and forced draft apparatus and (d) electric ash hoist in Evander Childs High School on 184th St., near Creston and Morris Ave. (low bidders) Wells & Newton, Ave. B and 17th St., Manhattan, (a) $74,770; Johnson Service Co., 123 East 27th St., Manhattan, (b) $7,515; E. Rutzler Co., 404 East 15th St., Manhattan, (c) and (d) $8,495 and $11,979 respectively.

N. Y., New York—(Borough of Queens)—(Official)—T. Frederick Jackson, 99 John St., New York, N. Y., at $4,928, was low bidder for electric equipment in P. S. No. 41, at Crocheron and Franklin Ave., Bayside.

N. C., Ayden—J. B. McCARY CO., Atlanta, Ga., awarded contract for municipal electric-light plant.

Kan., Louisville—Contract for municipal electric-light plant awarded to FEGAN CO.

Wash., Sedro Wolley—(Official)—Contract for heating and electric work for hospital buildings at Northern Hospital at Norlum awarded as follows: Heating to DUPAR BROS., Bellingham, at $11,435; electric work to AGATTER & CO., Seattle, at $4,022.

BRIDGES

Proposed Work

Conn., New Haven—Plans being prepared for bridge over Quinnipiac River at New Haven. Estimated cost, $400,000. Frederick L. Ford, City Engr.

N. Y., Ft. Edward—Date for receiving bids for bridge over Hudson River at Ft. Edward extended to Oct. 23. Noted Sept. 30.

N. Y., Lyons Falls—Bids will be received until noon, Oct. 19, for completing bridge over Blank and Moose Rivers at Lyons Falls. Estimated cost, $59,385. Frank Williams, Albany, State Engr. Noted Sept. 30.

Penn., Lancaster Junction—(Junction post office)—Bids will be received by County Commissioners until Oct. 19, for bridge at Lancaster Junction.

Penn., Middletown—Ordinance passed by Borough Council for bridge across tracks of Pennsylvania R.R. at West Ann St.

Va., Hampton—(Official)—Bids will be received at the Clerk's Office, Hampton, until 10 a.m., Oct. 27, for bridges over Tidewater Creek, Hawkins Bridge over Long Creek and Holsons Bridge over Long Creek, Elizabeth City County. G. P. Coleman, Richmond, State Highway Comr.

N. C., Wilmington—Election will be held in New Hanover County to vote $250,000 bonds for bridges.

N. C., Winston-Salem—Norfolk & Western Ry. plans steel viaduct in connection with new union station estimated to cost $500,000.

Ga., Doctortown—Construction of a bridge across Morgan Lake and approach to east bank of Altamaha River, connecting Ludowici, in Liberty County, with Doctortown in Wayne County, contemplated. R. D. Brantley, Blackshear, Ga., interested. Estimated cost, $120,000.

Fla., Monroe—Plans prepared by Atlantic Engineering Co., Germania Bank Bldg., Savannah, Ga., for bridge across St. Johns River at Monroe. Michael Sholtz, Daytona, interested.

Tenn., Knoxville—Construction of bridge over Wrinkle's Crossing contemplated by Knoxville, Sevierville & Eastern Ry.

Ky., Lexington—Citizens of Fayette County voted $30,000 bonds for county's share of bridge across Kentucky River between Fayette and Madison Counties. Noted Aug. 19.

Ohio, Akron—Election will be held Nov. 2 to vote $1,200,000 bonds for viaduct on North Main St. and Ryder Ave. from East Market St. to Cuyahoga Falls Ave. and City limits.

Ohio, Connecticut—Plans approved by Cincinnati, New Orleans & Texas Pacific R.R. Co. for viaduct over tracks at Elm St. Philip Fosdick, City Engr.

Ohio, Delphos—Bids will be received by Board of County Commissioners of Van Wert and Allen Counties, Van Wert, until Oct. 29, for bridge across Miami River and Erie Canal, Fifth St., Delphos.

Ohio, Youngstown—A viaduct, estimated to cost $600,000, will be constructed over tracks of Lake Shore & Erie R.R. in East Federal St.

Ind., Sullivan—Commissioners of Sullivan and Green counties contemplate county line bridge on Sullivan-Linton Rd.

Ill., Quincy—Bids will be received by L. L. Boyer, County Highway Supt., until 2 p.m., Oct. 15, for reinforced-concrete bridge in Columbus Township.

Ill., Waukegon—Construction of bridge over Kellogg Ravine contemplated by County Commissioners.

Iowa, Linn Grove—Bridge will be constructed across Little Sioux River at Linn Grove. Estimated cost, $10,000.

Minn., Minneapolis—Construction of concrete bridge on West Lake St. over tracks of Minneapolis & St. Louis and Chicago, Milwaukee & St. Paul R.R. contemplated.

Kan., Concordia—Bids will be received by George C. Guilbert, Clk., County Comr., until Oct. 20, for 11 reinforced-concrete bridges. Noted Oct. 7.

Kan., Hutchinson—Plans being prepared by W. B. Harris, County Engr., for concrete bridge over Arkansas River at Hutchinson.

Nebr., Lincoln—Bids will be received by H. E. Wells, Clk., Comrs. of Lancaster County, until 2 p.m., Oct. 22, for bridge over Oak Creek channel.

Okla., Chickasha—Surveys being made for new bridge. Estimated cost, $50,000. P. E. Colby, City Engr.

Idaho, Grand View—Bids will be received by G. Carlson, Chn., County Comrs., until Oct. 22, for bridge across Snake River at Grand View. Noted Oct. 7.

Idaho, Twin Falls—County Commissioners plan to construct steel bridge over Snake River at Hansen and Shoshone Falls. Estimated cost, $60,000.

Wash., Mt. Vernon—Commissioners of Skagit County plan bridge over Baker River between East and West Concrete at Mt. Vernon. Estimated cost, $60,000.

Ore., Portland—Petition presented to city for bridge across Macleay Park ravine to connect Stark St. with New Linnton Blvd.

Ore., Portland—Bids will soon be received by City for reinforced-concrete viaduct at Holgate St.

Calif., Los Angeles—Plans approved by Public Utilities Board for viaduct over tracks of Pacific Electric Ry. to connect West Boulevard and Sherman Drive. Estimated cost, $40,000.

Bids In and Contracts Awarded

Maine, Augusta—Contracts for bridge in Hayneville awarded as follows: Abutments to WISEMAN & MCPHAIL, Smyrna Mills, at $695; steel superstructure to GROTON BRIDGE CO., Groton, N. H., at $6,900. Noted Sept. 23.

Maine, Frankfort—(Official)—Contract for bridge awarded to PENN BRIDGE CO., Beaver Falls, Penn. Noted Sept. 30.

N. H., Nashua—Contract for bridge over Pennichuck Brook awarded to T. J. HINES CO., Ware, Mass. Estimated cost, $8,500. Noted Aug. 19 and Sept. 23.

N. Y., Bronxville—(Official)—Contract for bridge for New York Central R.R. awarded to FT. PITT BRIDGE WORKS, Pittsburgh, Penn. Estimated cost, $10,000.

Penn., Norristown—Whitaker & Diehl, at $5,574, for concrete, and Friend & Metz, at $7,750, for steel girder type, submitted lowest bid for bridge over Towamencin Creek near Kulpsville.

Penn., Philadelphia—Contract for bridge on Sherwood Ave. awarded to F. J. BOAS, at $18,847; bridge on 54th St. over Philadelphia, Baltimore & Washington R.R. awarded to PEOPLES BROS., at $34,500.

Penn., Philadelphia—Contract for bridge across Frankford Creek at Torresdale Ave. awarded to DAY & ZIMMERMAN, at $30,361. Noted Sept. 16.

Penn., Phœnixville—(Official)—All bids received Sept. 30 for bridge across Schuylkill River between Phœnixville and Mont Clare rejected. Commissioners of Montgomery and Chester Counties have retained B. H. Davis, Consult. Engr., Whitehall Bldg., New York, N. Y., as engineer for proposed bridge and the work will be readvertised. Noted Sept. 23 and Oct. 7.

Ohio, New Lexington—Contract for bridge at Stringtown awarded to CAPITOL CONSTRUCTION CO., Columbus, at $5,545. Noted Sept. 16.

Ind., Brownstown—Contract for eight bridges for Jackson County awarded to KATTMAN & HANCOCK, Brownstown, at $8,039. Noted Sept. 2.

Ind., Collamer—Contract for bridge awarded to ELKHART BRIDGE CO., Elkhart, at $5,500.

Ind., Covington—(Official)—Contract for Ed. Martin Bridge in Troy Township, and County Line Bridge in Richland Township and Montgomery County awarded to CHARLES IRWIN, Attica, at $6,100. Noted Aug. 26.

Ind., Richmond—Contract for bridge at Main St. awarded to I. E. SMITH, Richmond, at $5,395.

Ill., Carmi—(Official)—Contract for bridge work in Carmi Township, White County, awarded to JOHN J. O'HERON & CO., Chicago, at $21,960. Noted Sept. 30.

Ill., Peoria—According to press reports contract for concrete viaduct over Dry Run on Elizabeth St. awarded to A. D. THOMPSON, at $4,250.

Iowa, Cedar Rapids—Contract for paving Avenue B bridge awarded to FORD PAVING CO., Cedar Rapids, at $8,960.

Kan., Lawrence—(Official)—Bids were received for reinforced-concrete bridge over Kansas River at Lawrence as follows: Missouri Valley Bridge Iron Co., Leavenworth, $199,-910; Monarch Engineering Co., Falls City, Neb., $209,769; Winston Bros., Minneapolis, Minn., $211,052. Hendrick & Cochrane, Kansas City, Mo., Consult. Engr. Noted Aug. 12.

Kan., Oswego—County Commissioners awarded contract for seven bridges to TOPEKA BRIDGE & IRON CO., Topeka, at $8,300.

N. D., Bismarck—(Official)—Contract for concrete culverts on section line south of Wing awarded to WILLIAM FROGESTROM, Bismarck. Noted Sept. 23.

Ark., Yellville—LARIMER & BURGETT, Memphis, Tenn., at $5,000, awarded contract for bridge over Crooked Creek.

Idaho, Boise—Contract for eight reinforced-concrete bridges in Bannock County awarded to LONG & BLODGETT, Gooding, at $4,672.

Wash., Walla Walla—All bids received Sept. 10 for Swegle Bridge rejected by Commissioners of Walla Walla County. New bids will be received. Noted Aug. 5 and 19.

Calif., Hanford—MERCEREAU BRIDGE & CONSTRUCTION CO., Pacific Electric Bldg., Los Angeles, at $32,000, awarded contract for bridges and culverts.

Que., Ste. Martine—(Official)—Contract for bridge at outlet of Beau River awarded to OSIAS BIEL, at $7,840. Noted Sept. 30.

Ont., Trenton—Contract for steel work and substructure of bridge over Trent River awarded to ONTARIO BRIDGE CO., Toronto, at $132,000. Noted Sept. 30.

WATER WORKS

Proposed Work

Mass., Lenox—Lenox Water Co. contemplates new reservoir. G. F. Bouren, Comr.

N. Y., Avon—Bids will soon be received for reservoir. Estimated cost, $6,000. W. H. Clark, Avon, Water Wks., Supt.

N. Y., Huntington—Plans being considered for municipal water system. Walter E. Sexton, interested.

N. Y., Ilion—Bids will soon be received for filtration plant and pipe line. Estimated cost, $18,000. C. C. Hopkins, Rochester, N. Y., Engr.

N. Y., New York—(Official)—Bids will be received by Board of Water Supply, Municipal Bldg., until 11 a.m., Oct. 26, for buildings at Uptake and Downtake chambers of Hill View Reservoir, Yonkers. (See Adv.)

N. Y., Savona—Construction of reservoir and dam across Lamoka Valley, near Savona, contemplated.

N. J., Newark—(Official)—Bids readvertised and will be received until Oct. 21 by Water Department for meter repair station at 14th Ave. and South Eighth St.

N. J., Penpack—(Official)—Bids will be received by Frank Ludlow, Borough Clk., Borough Hall, until 8 p.m., Oct. 26, for water system. Noted Feb. 26 and Sept. 9. (See Adv.)

Del., Newport—(Official)—Election will probably be held in January to vote bonds for water and sewer systems. Noted Sept. 30.

Md., Grantsville—(Official)—See item under "Sewers."

Md., Silver Springs—Harry Stevens, Union Trust Bldg., Washington, D. C., preparing plans for water system. Estimated cost, $40,000. Noted Aug. 19.

Va., Altavista—Plans being prepared for water and sewer system. Estimated cost, $35,000. Anderson & Christie, Commercial Bldg., Charlotte, Consult. Engr. Noted Aug. 26.

Va., Norfolk—Board of Control will receive bids for two dams and spillway at Lake Taylor and rebuild clear-water basin. W. H. Taylor, Jr., City Engr. Estimated cost, $36,102.

Va., Petersburg—Council contemplates bond issue for $200,000 for water and sewer mains.

Va., Williamsburg—Bonds for $30,000 voted by citizens for water system. Noted Sept. 23.

S. C., Orangeburg—James E. Salley, City Electrician, preparing plans for enlarging and extending water system and electric-light plant. Estimated cost, $50,000. Noted Oct. 7.

S. C., Spartanburg—Bids will be received until Oct. 19 by city for improvements to pumping station. S. A. Bush, Supt. of Water-Wks. Noted Sept. 23.

Ga. Acworth—City plans to install new water system and electric light plant. George L. Lemon, Mayor.

Ga., Coolidge—W. Hopson Goodlie, Macon, prepared plans for water-works improvements. Estimated cost, $5,000. Noted Sept. 16.

Ga., Fitzgerald—Construction of reservoir contemplated by city.

Ga., Nicholls—Public Utility Co., Waycross, will build water system and electric-light system.

Ala., Citronelle—Citizens voted $15,000 bonds for water system. Edward B. Kay, Tuscaloosa, Consult. Engr.

Ala., Scottsboro—Bonds for $5,000 voted by citizens for extension to water system. W. C. Maples, Clk.

Miss., Philadelphia—Bonds for $30,000 for water system and sewer system voted by citizens. W. D. Gillis, Mayor. Noted Sept. 2.

La., Oakdale—Plans being prepared for water system. Estimated cost, $25,000. R. E. L. Ricketts, City Secy. Noted Sept. 16.

Ohio, Akron—Bids will be received until noon, Oct. 17, by C. P. Parker, for 100 fire hydrants and for dismantling, moving and erecting pumping engine in Wooster Ave.

Ohio, Cincinnati—(Official)—Election will be held Nov. 2, to vote $400,000 bonds for high pressure fire service. Noted Sept. 30.

Ohio, Cincinnati—Bonds for $210,000 sold for stand pipe and equipment in Kennedy Heights.

Ohio, Cleveland—Bids will be received until noon, Oct. 17, by A. R. Callow, Comr. of Purchases and Supplies, for steam mains and for insulation for underground steam mains for filtration plant at Division pumping station.

Ohio, Defiance—Bids will be received until Oct. 23, by Charles J. Thompson, Special Master Comr., for purchase of plant of Defiance Water Co.

Ohio, Fremont—David E. Adams, State Sanitary Engr., recommends filtration plant.

Mich., Watervliet—Election will soon be held to vote $18,000 bonds for water system.

Ill., Galesburg—Election will be held Oct. 19 to vote $95,000 bonds for improving water system and electric-light plant. Noted Sept. 30.

Ill., Watertown—Bids will be received until 3 p.m., Oct. 18, by Frank D. Whipp, Fiscal Superv., for steam and motor driven pumps for Watertown State Hospital.

Wis., Hayward—Plans being prepared for improving water system. Estimated cost, $11,000.

Wis., Pulaski—Plans being prepared by Steller Engineering Co., Load & Trust Bldg., Milwaukee, for water and sewage system.

Iowa, Luverne—(Official)—All bids received Oct. 6 for water system rejected. New bids will be received until 3 p.m., Oct. 22, by R. E. Cook, Town Clk. Noted Sept. 23.

Minn., Aurora—Bids will be received by Alfred E. Hill, Village Clk., until Oct. 20, for concrete reservoir and brick pumping station, also for two 660-gal. pumps. Noted Sept. 30.

Kan., Russell—Plans have been approved by State Public Utilities Commission for water system. Estimated cost, $18,000. Noted Sept. 9.

Kan., Soldier—Citizens defeated $10,000 bonds for water system.

S. D., Dallas—Citizens voted $12,000 bonds for water system.

N. D., Bismarck—Bismarck Water Co. plans improvements to its water system.

Wyo., Thermopolis—Election will be held Oct. 19 to vote $40,000 bonds for extension of water system.

Mont., Polson—Bonds for $26,000 for water system sold.

Ark., Stuttgart—City Council plans municipal water and electric-light system.

Tex., Ft. Worth—Homan & Laird preparing plans for completing West Fork reservoir and constructing sewage disposal plant.

Tex., Galveston—(Official)—Col. C. S. Richie, U. S. Army Engr., was unable to accept position to supervise permanent water main between Galveston and Alta Loma plant as War Dept. deemed it contrary to public policy for its officers to do other than government work. Noted Sept. 30.

Tex., Galveston—Bids will be received until 5 p.m., Nov. 4, by John D. Kelley, City Secy., for mechanical equipment of air pumping engine at Alta Loma.

Tex., Lancaster—Citizens voted to issue $15,000 bonds for water and sewer system. Noted Sept. 16.

Tex., Rusk—Bonds for $5,000 for water system approved by Attorney General.

Tex., Whitney—Election will be held Oct. 19 to vote on $15,000 bonds for water system.

Okla., Altus—Citizens plan filtration plant at water system.

Okla., Clinton—Citizens plan to improve water system. Estimated cost, $75,000.

Okla., Jones—Contract will soon be awarded for municipal water system. Estimated cost, $10,000. Benham Engineering Co., Oklahoma, Engr. Noted Sept. 9.

Okla., Tulsa—Election will be held Nov. 2 to vote on $600,000 bonds for storage basin at mouth of Shell Creek.

Colo., Platteville—Plans being prepared by L. L. Stimson, Greeling, for water system. Noted Sept. 9 and 30.

Idaho, Pocatello—Plans being prepared by Bennock Engineering Co., Pocatello, for municipal water system. Estimated cost, $400,000. Noted Aug. 19.

Utah, Salt Lake City—Bids will be received some time in November for dam in Parley's Cañon for water storage. Estimated cost, $100,000. Noted Sept. 16.

Ore., Portland—Construction of concrete dam at Bull Run River headworks contemplated by City. Estimated cost, $110,000.

Que., Lennoxville—Bonds for $40,000 for water system voted by citizens of Lennoxville, Que., and not Lennoxville, Ohio, as stated in our issue of Sept. 30. Noted Sept. 30.

Ont., York—Report submitted to council of York Township by H. Gall, Engr., for water system for southern portion of York Township. Estimated cost, $750,000.

Bids In and Contracts Awarded

N. Y., Albany—Lowest bid received for new wells at Central Islip State Hospital was that of A. J. Connolly, 100 South 10th St., Newark, N. J., at $4,800.

N. Y., Jamestown—(Official)—Contract for 10-in. driven wells awarded to ARTESIAN WELL & SUPPLY CO., Providence, R. I., at $10,175. Noted Sept. 16.

N. Y., New York—(Borough of the Bronx)—Bids were received by Department of Water Supply, Gas and Electricity for laying water mains in Westchester Ave., as follows: Victory Contracting Corporation, 308 East Fourth St., Brooklyn, $37,911; Dominic Tucillo, $37,912 and Beaver Engineering & Contracting Co., $39,287.

N. Y., New York—Contract for electrical operating equipment for gang-driven valves and sluice gates at Ashokan, Kensico, Hill View and Silver Lake Reservoirs under Contract No. 161 awarded to LORD ELECTRIC CO., 105 West 40th St., New York, N. Y., at $32,982. Noted Sept. 16.

Penn., Allentown—Contract for water system for University Heights awarded to HUGH E. CRILLY. Estimated cost, $10,000.

Penn., Philadelphia—(Official)—Contract for turbo centrifugal pumps at Shawmont Pumping Station and stoker's equipment at Queen Lane Pumping Station awarded to M. L. BAYARD, 704 Penn. Bldg., Philadelphia, at $90,000. Noted Sept. 16 .

Ohio, East Liverpool—Contract for river intake pier, river intake line, suction equipment, filter plant, including settling basins and wash tanks awarded to T. A. GILLESPIE CO., Pittsburgh, at $96,502; contract for laying pipe, force mains and valves to J. I. DUCK, Scottdale, Penn., at $94,472. Noted Sept. 23.

Ohio, Hamilton—Bids were received Oct. 5 for c.-i. water pipe as follows: United States Cast-Iron Pipe Co., $23.50; American Cast-Iron Pipe Co., $23.60 and Clamorgan Pipe & Foundry Co., $23.75.

Ohio, Ironton—No bids were received for sale of $100,000 water works bonds.

Wis., Kewaunee—Contract for water system awarded to F. M. GRAY, JR., Milwaukee. Bonds for $30,000 sold for this purpose. Noted Aug. 19.

Iowa, Luverne—Circular Construction Co., Minneapolis, Minn., at $4,426, submitted lowest bid for reservoir.

Iowa, Terrill—Contract for water system awarded to PUBLIC SERVICE CONSTRUCTION CO., at $7,379. Noted Sept. 30.

Kan., Spearville—Contract for water system awarded to BICKELL CO., 700 Interstate Bldg., Kansas City, Mo., at $20,543. Noted Sept. 9.

Neb., Hastings—Contract for driving wells and furnishing motor driven centrifugal turbine pump awarded to HYDRAULIC ENGINEERING & MACHINERY CO., Lincoln, at $4,970. Noted Sept. 9.

N. D., Minot—(Official)—Contract for two miles of water mains awarded to GEORGE W. KEMPER, Minot, at $18,057. Noted Sept. 23.

Ark., Leslie—Contracts for water system awarded as follows: Pipe to AMERICAN CAST IRON PIPE CO., Birmingham, Ala.; hydrants and valves to COLUMBIA IRON WORKS, Chattanooga, Tenn.; pumps to HOSHELL MACHINE CO., Memphis, Tenn.; reinforcing steel work to CORRUGATED METAL CO., Buffalo, N. Y. Bonds for $28,800 sold for this purpose. Noted July 29.

Ark., Malvern—LANE & BOWLER, Stuttgart, awarded conditional contract for drilling several test holes for pure water supply. If successful, bonds will be sold for water system.

Ore., Halfway—Contract for material for gravity water system awarded to CRANE CO., Portland.

B. C., New Westminster—Contract for 4,800-ft. riveted steel pipe awarded to VULCAN IRON WORKS, at about $7,000.

SEWERS

Proposed Work

Conn., Stratford—Board of Finance voted $150,000 bonds for sewer system. Noted Sept. 9.

N. Y., Greenwich—Election will be held Oct. 6 to vote $7,500 bonds for sewer pipe on Elman Ave., Main and Bridge St.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Oct. 19, by Marcus E. Marks, Borough Pres., for repairs to sewer under Pier 40, at Clarkson St., North River.

N. Y., Olean—(Official)—Bids will be received until 5 p.m., Oct. 18, by Common Council for sewers in Stowell Ave. and South Eighth St. A. G. Harvey, Supt. of Streets.

N. Y., Rye—Citizens contemplate sewer extensions. Estimated cost, $150,000. John A. Ehler, Eng.

N. J., Madison—H. King Conklin, 665 Broad St., Newark, is in the market for sewer pipe for Academy Rd. for Madison Realty & Improvement Co.

N. J., Paterson—Plans prepared for sewage-disposal plant and pumping station for borough of Prospect Park. Harold J. Harder, Paterson, Engr. Estimated cost, $100,000.

Penn., Greensburg—Samuel Dixon, Health Comr., authorized sewage-disposal plant. Estimated cost, $250,000.

Penn., Sharon—Election will be held in November to vote $185,000 bonds for sewage disposal plant. Noted Sept. 23.

Penn., Steelton—Edward Lewis, Secy., Bd. of Health, favors sewage-disposal plant. Estimated cost, $12,000.

Md., Crisfield—(Official)—State Board of Health has ordered installation of sewer system.

Md., Grantsville—(Official) — William Harvey, Frostburg, making surveys for installation of sewer and water systems.

W. Va., Parkersburg—Bids will be received until Oct. 20 for 8-in. sanitary sewers in various streets. Frank Good, City Clk.

N. C., Durham—Bids will be received until Oct. 18 for sanitary sewers, manholes and flush tanks. H. W. Kueffner, Engr.

N. C., High Point—City will spend $60,000 for extending sewer outlet. W. P. Pickett, Mayor.

Fla., Starke—(Official)—Bids will be received about Jan. 1 for $26,000 sewer bonds. C. F. Hoover, Mayor. Noted July 29.

Ala., Citronelle—Bonds for $10,000 for sewer system voted by citizens. Edgar B. Kay, Tuscaloosa, Engr.

Miss., Philadelphia—Bonds for $30,000 voted by citizens for sewer and water systems. M. L. Cully, Jackson, Engr. Noted Sept. 2.

La., De Ridder—First Sewerage District plans $41,000 bond issue for sewer extensions. J. E. McMahon, Pres.

Tenn., Cleveland—Bids will soon be received for sewer system. Walter G. Kirkpatrick, Birmingham, Ala., Engr. Estimated cost, $75,000.

Ohio, Bowling Green—Bids will be received by W. A. Mariner, Dir. Pub. Ser., until Oct. 16, for sewer construction.

Ohio, Canton—Bids will be received about Nov. 1, according to press reports, for sanitary sewer system. W. E. Sarver, Engr.

Ohio, East Liverpool—Bids will be received until Oct. 18 for 6-in. sanitary sewer in McKinnon, Smith, Orchard Grove and Fairmount St. E. J. Smith, Dir. of Pub. Ser.

Ohio, Findlay—Council authorized sewer in South Findlay on Chamberlain Hill. Estimated cost, $7,380. J. Stringfellow, City Engr.

Ohio, Xenia—(Official)—Bids will be received until noon, Nov. 2, by City Auditor for sale of $60,000 bonds for sewage-disposal plant.

Ind., East Chicago—Bids will be received until 1:30 p.m., Oct. 15, by Board of Public Works for main sewer in Washington St. T. Y. Richards, City Clk.

Ind., Logansport—Bids will be received until 10 a.m., Oct. 19, by Frank V. Guthrie, Bd. of Pub. Wks., for sewer in Race St., Linden Ave.

Mich., Zeeland—Plans being prepared by J. R. Rumsey, Consult. Engr., Grand Rapids, for extension of sewer system.

Ill., Chicago—Proposition presented to Sanitary District Board by Stock Yards Packing Corporations for improved drainage system to flow into Bubbly Creek. Work will include construction of new sewers.

Ill., Upper Alton—Bids will be received by Frank Whipp, Fiscal Superv., Springfield, Ill., until 3 p.m., Oct. 25, for tunnel work and sanitary storm and water sewers at Alton State Hospital.

Wis., Embarrass—Village plans to install sewer system.

Wis., Ripon—Bids will be received until 4 p.m., Nov. 5, by Board of Public Works for sewer in South Grove St. Jay E. Carter, City Clk.

Iowa, Algona—(Official)—All bids received Oct. 5 for sewers in various streets have been rejected. New bids will be received until Oct. 27. S. W. Crowell, City Clk. Noted Sept. 30.

Iowa, Charles City—W. S. Beattie preparing plans for storm sewer system.

Iowa, Elliott—(Official)—Bids will be received until 8 p.m., Oct. 19, by Town Clerk for sanitary sewer mains. Noted Aug. 12.

Iowa, Pella—Bids will be received by A. C. Kuyper, City Clk., until 5 p.m., Oct. 29, for 14,500 ft. of sanitary sewer.

Iowa, Strawberry Point—M. Tschirgi & Son, American Trust Bldg., Cedar Rapids, preparing plans for sanitary sewers and disposal-plant. Estimated cost, $20,000.

Minn., St. Paul—Plans for sewer in Suburban Ave. and Hester St. approved by City Council.

Kan., Manhattan—Bids will soon be received for sanitary sewer in three districts. George Frank, Comr. of Pub. Utilities.

Mont., Bozeman—Bids will be received until 5 p.m., Oct. 21, by C. A. Speith, City Clk., for sanitary sewer in Special Improvement Dist. No. 106.

Tex., Crockett—Sewer system will be constructed by city. V. M. Ehlers, Engr., and J. W. Young, Mayor.

Tex., Kaufman—City contemplates building sewer system.

Tex., San Benito—Bids will be received until Oct. 20 for sewage-disposal plant. Estimated cost, $5,000. A. T. Agar, San Benito, Engr. Noted Oct. 7.

Tex., Sweetwater—City contemplates sewage-disposal plant.

Tex., Uvalde—Installation of sewage-disposal plant under consideration.

Okla., Muskogee—Bonds for $25,000 voted by citizens for sanitary sewers. Franklin Miller, Mayor.

Colo., Loveland—Council plans construction of west side sewer system.

Calif., Los Angeles—City Council plans sewers in Second Ave. and 36th St.

Calif., Stockton—Bids will soon be received for sewer work. Estimated cost, $18,693. J. Compton, City Engr. Noted Sept. 2.

Bids In and Contracts Awarded

Mass., Boston—Bids were received Oct. 6 by Metropolitan Water and Sewerage Board for Section 1 of Deer Island Outfall sewer as follows: George M. Bryne, 166 Devonshire St., Boston, $43,370; Bay State Dredging & Contracting Co., Boston, $44,358 and J. H. Ferguson, Dorchester, $50,584. Noted Sept. 30.

N. Y., New York—(Borough of Manhattan)—(Official)—W. J. Fitzgerald, 547 West 45th St., New York, was low bidder at $10,692 for receiving basins under contract 1, $11,137 for receiving basins under contract 2, $7,801 for receiving basins under contract 3 and $9,332 for receiving basins under contract 4.

N. Y., New York—(Borough of Richmond)—(Official)—Bids were received Oct. 5 for sanitary sewers in Castleton Ave.: J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $8,823, and Joseph Johnson Sons, West New Brighton, $9,558.

N. Y., New York—(Borough of Richmond)—(Official)—Contract awarded to O'BRIEN & FLEMING, 109 Broad St., New York, at $4,374, for sewage-disposal plant. Noted Oct. 7.

N. Y., Rensselaer—Contracts for sewers on Spruce and Ring St. and Aiken Ave. to JOHN DOYLE, Rensselaer, at $4,020; tile sewer on Hallen Ave. to S. A. FOWLER, at $2,579; sewer from Barnett's Shoddy Mills to river to MICHAEL DOLLARD, at $3,630.

Nutley, N. J.—Contract awarded to JOSEPH CESTONE, at $16,060, for storm sewer in Park and Myrtle Ave. and to JAMES T. BOYLAN, at $5,099, for sanitary sewer in same streets.

Penn., Glen Mills—Latta & Perry, Philadelphia, was low bidder for sewage-disposal plant for Girl's House of Refuge of Pennsylvania. Franklin & Co., Philadelphia, Engr.

Penn., Philadelphia—(Official)—Department of Public Works awarded contracts for sewer work as follows: ADOLPH JAFOLLA, at $16,555, for Cobbs Creek intercepter; JOSEPH LOMBARDI, at $11,623, for Gunners Run relief extension; RICHARD WALSH & SONS, at $61,551 for Lardner St. sewer; ESTATE OF DAVID McMAHON, at $12,198, for North Mt. Pleasant Ave. sewer; C. A. CONAN, at $16,117, for Snyder Ave. sewer; FRANK MARK CONSTRUCTION CO., at $25,570, for Wingohocking extension. Noted Sept. 23.

Penn., Pittsburgh—Contract for sewers in Bilsack St. and Stobner Way awarded to M. O'HERRON CO., First and McKean St., Pittsburgh, at $12,057.

Penn., Wilkes-Barre—Contract awarded to D. M. ROSSER, Kingston, for sewer work.

Va., Charlottesville—Contract awarded to E. L. CAVE, Charlottesville, at $7,500, for sewer work.

Ohio, Port Clinton—(Official)—Contract awarded to REMELSPACH & THOMAS, Fremont, for sewer work. Noted Aug. 5.

Ohio, Toledo—Contract awarded to J. N. BICK, at $14,341, for sewer in Parkside addition.

Ind., Logansport—Contracts awarded to PALMER MOORE & CO., for Humphrey St. sewer and to WALTER GIRTON for Water St. sewer, by Board of Works.

Ill., Anna—SELL & KOILER, Pana, at $9,721, awarded contract for sewage-disposal plant at Southern Hospital for Insane at Anna.

Wis., Fond du Lac—Contracts awarded by Board of Public Works to GEORGE McCABE for storm sewer in Waupun St. and to ROBERT BERNETT for sanitary sewer in Waupun St.

Wis., New Glarus—Contract awarded to J. N. ROHERTY, Madison, for sewer system.

Wis., Wausau—Contract awarded to CARL LOTZ, Wausau, for 12-in. pipe sewer in Grand Ave.

Iowa, Peterson—Contract awarded to H. J. CATHROE, Omaha, Neb., for outlet sewer and lateral sanitary sewers.

Iowa, Peterson—All bids received for sewage-disposal plant have been rejected. J. F. Fastenow, Clk.

Minn., St. Paul—All bids received for sewer in Bay St. have been rejected.

N. D., Minot—(Official)—Contract awarded to GEORGE W. KEMPER, Minot, at $27,000, for sewers in various streets. E. J. Thomas, Engr. Noted Sept. 30.

Mont., Laurel—Contract awarded to SECURITY BRIDGE CO., Billings, for sewers in Districts Nos. 12, 13 and 14.

Mo., St. Joseph—Board of Public Works awarded contract to W. D. KELLEY for sewers in District No. 69.

Tex., Dallas—Contract awarded to JETTMUTHS CONSTRUCTION CO., Montgomery, Ala., at $97,000 for Imhoff sewage-disposal plant.

Calif., San Bruno—HAMLIN & WEHNER, San José, at $22,216, awarded contract for sewer construction.

Calif., Santa Barbara—(Official)—Contract awarded to SAMUEL KRULY, 636 Castelar St., Los Angeles, at $20,300, for sewer work. A. B. Cook, City Engr. Noted Aug. 26.

Ont., London—See item under "Streets and Roads."

GARBAGE

Proposed Work

R. I., Providence—Installation of garbage disposal plant under consideration by Aldermanic Committee on Health.

N. J., Newark—(Official)—Bids will be received until 3:15 p.m., Oct. 21, by Board of Street and Water Commissioners, City Hall, for collection and disposal of refuse for five years. M. R. Sherrerd, Ch. Engr. Noted Sept. 30. (See adv.)

Mich., Ishpeming—(Official)—Bids will be received until Oct. 15 by Board of Public Works for garbage incinerator. R. H. Olds, Recdr. Noted Sept. 30.

Wis., Madison—City Council contemplates two incinerators. Estimated cost, $17,000.

Okla., Batesville—Bonds for $6,500 voted by citizens for incinerator plant.

Bids In and Contracts Awarded

Ill., Rock Island—(Official)—Contract awarded to DECARIE INCINERATOR CO., Minneapolis, Minn., at $20,250, for garbage incinerator. Noted Sept. 30.

STREETS AND ROADS

Proposed Work

Mass., Boston—(Official)—Bids will be received until noon, Oct. 15, by Edward F. Murphy, Comr. of Pub. Wks., for sidewalks in Walk Hill St., in Bourne St. and other streets.

Mass., Taunton—Plans being considered by City Council for paving a number of streets. Estimated cost, $14,300.

Mass., Wareham—(Official)—Bids will be received until 10:30 a.m., Oct. 23, by County Commissions of Plymouth County, care of Massachusetts Highway Commission, Ashburton Pl., Boston, for 8,750 ft. of highway in Wareham.

N. Y., Albany—(Official)—Bids will be received by Edwin Duffey, State Highway Comr., 55 Lancaster St., Albany, until 1 p.m., Oct. 26, for improving various county highways. (See adv.)

N. Y., Albany—(Official)—Bids will be received until noon, Nov. 9, for paving terminal site near North Ferry St., under Terminal Contract 2-P. Estimated cost, $42,869.

N. Y., Buffalo—Bids will soon be received by Francis G. Ward, Comr. of Pub. Wks., for paving Hensey and East Woodlawn Ave. with asphalt, and Spauding and Spenger St.

N. Y., Mohawk—City plans to pave a number of streets. A. H. Wagin, City Clk.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Oct. 19, for improving various streets and avenues of the city.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Oct. 19, for sidewalks on various streets.

N. J., Jersey City—Bids will be received until 11 a.m., Oct. 21, for improving Spruce St. with belgian block. Michael I. Fagen, City Clk.

N. J., Jersey City—Bids will soon be received for improving Rock St. and Wegman Parkway.

N. J., Pennsauken—Contract will soon be awarded for 22,764-ft. of sidewalk. Estimated cost, $15,000.

N. J., Trenton—Bids will be received until Nov. 9 by State Road Commissioner for road from Hightown to Princeton Junction.

Penn., Allentown—Bids will soon be received for about 10,000 sq.yd. of paving on Tenth and Howard St. C. D. Weirbach, City Engr.

Penn., Connelsville—City Council plans to pave section of Wills Rd., Angle and other streets. Estimated cost, $79,200.

Penn., Harrisburg—(Official)—Bids will be received by State Highway Department, Harrisburg, until 10 a.m., Nov. 4, for improving a number of county roads.

Penn., Philadelphia—Ordinance passed by Board of Commissioners of Lower Merion Township appropriating $50,000 for highways.

Md., Baltimore—Plans for paving Water and Mercer St. from Light to Calvert St., also several other streets, approved by Paving Commission and Board of Awards.

Va., Chase City—City contemplates bond issue for street improvements.

W. Va., Adamston—Bids will be received until 7:30 p.m., Oct. 16, by W. V. Hutchinson, Town Recdr., for grading, curbing and paving Pike St.

W. Va., Bath—(Berkeley Springs post office)—City plans an expenditure of $30,000 for paving.

N. C., Elkins—Citizens of Marsh Township voted $25,000 bonds for roads.

N. C., Raleigh—Ordinance passed by City Commissioners authorizing expenditure of $10,000 for sidewalks. Noted Sept. 9.

Fla., Crawfordville—Commissioners of Wakulla County plan to issue $15,000 bonds for roads. J. M. Towles, Clk.

Fla., Fellsmere—Election will be held to vote $50,000 bonds for paving and sidewalks. C. W. Tolmadge, Ch. Engr.

Fla., Starke—(Official)—Citizens voted $16,000 bonds for paving. Bids will be asked about January 1. Noted Sept. 30.

Fla., Tampa—Board of Public Works plans 70,720 sq.yd. of pavement.

Ala., Camden—Bids will be received until Nov. 1 by J. N. Stanford, Chn., Comr. of Wilcox County, for road in Wilcox County.

Miss., Lexington—Citizens of Holmes County, Durant District, voted bonds for roads.

Miss., Magnolia—Bonds for $75,000 sold for improving roads in Fourth District. Noted Sept. 2.

La., New Orleans—Construction of boulevard along 17 St. canal from Metarie Rd. to Lakeside contemplated by Orleans Levee Board.

La., Plaquemine—Contract will soon be awarded for about 12 miles of road on east side of Mississippi River . Estimated cost, $7,000. Noted Sept. 16.

Tenn., Pulaski—Citizens of Giles County contemplate bond issue for roads.

Ky., Lexington—Citizens voted $300,000 bonds for roads in Fayette County. Noted Aug. 12.

Ohio, Akron—Bids will be received by C. P. Parker, Dir. Pub. Ser., until noon, Oct. 17, for paving Huntingdon St., Mason and Nash St. and Rhodes Ave., also for grading Lease and Gage St.

Ohio, Alliance—Bids will be received by Charles O. Silver, City Audr., until Oct. 25, for sale of $33,190 bonds for road improvements.

Ohio, East Liverpool—Bids will be received until Oct. 16 by E. J. Smith, Dir. Pub. Ser., for improving East Sixth St. from Walnut to Sugar St., and Barlow Alley from West Ninth St. to Croxall Alley.

Ohio, Euclid—(Official)—Bids will be received by H. S. Dunlop, Village Clk., Town Hall, until noon, Nov. 8, for improving Chardon Rd.

Ohio, Findlay—Bonds for $20,950 will be sold for street improvements.

Ohio, Independence—Bids will be received by Arthur J. Goudy, Village Clk., until noon, Nov. 1, for sale of $9,500 bonds for sidewalks on Brecksville Rd.

Ohio, Zanesville—City Council plans an expenditure of $22,250 for paving a number of streets.

Ind., Goshen—(Official)—No bids were received for concrete road in Harrison Township. Noted Sept. 16.

Ind., Indianapolis—Bids will be received by Commissioners of Marion County until 10 a.m., Nov. 3, for grading road in Warren Township.

Ind., Newport—Bids will be received until 10 a.m., Nov. 1, by Commissioners of Vermillion County, for gravel roads in Helt and Clinton Townships.

Ind., South Bend—Bids will be received by C. Sedgwick, County Audr., until 11 a.m., Nov. 8, for three gravel roads in Madison Township.

Ind., Williamsport—Bids will be received by Commissioners of Warren County until 2 p.m., Nov. 1, for gravel roads in Jordan and Pike Township.

Mich., Detroit—A. Fenkell, Comr. of Pub. Wks., has recommended paving Whitney Ave. from Linwood to Wildemere St. Estimated cost, $12,500.

Mich., Sault Ste. Marie—Bids will be received by H. A. Osborn, County Rd. Comr., until 3 p.m., Oct. 18, for 7 miles of gravel roads.

Ill., Dixon—Board of Local Improvements plans an expenditure of $25,502, for macadamizing East Everett, East Water, East Chamberlain, North Jefferson and other streets.

Ill., Des Plaines—Bids will be received by Village Clk. until Oct. 17, 4,500 sq.yd. concrete pavement.

Ill., Murphysboro—County Board of Supervisors plans an expenditure of $16,000 for roads.

Ill., Rock Island—Property owners plan to pave Eighth Ave. between 24th and 29th St. with brick. Estimated cost, $15,000.

Wis., Madison—Plans being considered for paving with ashphalt Regent St. from Park to Monroe St.

Wis., Tomah—Bids will be received by William Koopman City Clk., until noon, Oct. 16, for approximately 2,000 sq.yd. reinforced-concrete pavement.

Iowa, Des Moines—City Council plans to pave North Ave. and 23rd St.

Iowa, Jefferson—Supervisors of Greene County plan 8½ miles of gravel road.

Minn., Crookston—Bids will be received until 2 p.m., Oct. 26, by H. J. Welte, Audr., Polk County, for improving State Road No. 4.

Minn., St. Paul—Bids will be received by A. Hohenstein, Pur. Agt., until 10:30 a.m., Oct. 18, for grading and improving Edgecombe Rd. from West Seventh St. to Lexington Ave.; Field Ave. from Daven Ave. to Edgecombe Rd.; alley in block No. 13, Boulevard Addition, Stanford Ave. from Prior Ave. to Cleveland Ave.; Wellesley Ave. from Prior to Cleveland Ave.; Berkeley Ave. from Kenneth St. to Cleveland Ave.

Minn., Thief River Falls—Bids will be received by T. P. Anderson, County Audr., until 2 p.m., Oct. 18, for graveling State Rd. No. 1.

Kan., Eldorado—Commisisoners of Butler County plan one mile of rock road.

Kan., Pittsburg—Council passed an ordinance to construct concrete curb and gutter and resurface Broadway from Second to Quincy Ave.

Kan., Topeka—County Commissioners have decided to pave West 10th Ave.

S. D., Bison—Commissioners of Perkins County plan an expenditure of $28,500 for road work.

S. D., Sioux Falls—Plans prepared by A. Howe, City Engr., for paving Main Ave. from Third to Fifth St.

Mont., Anaconda—City Council created Special Improvement District No. 71 to improve Park Ave. from center of Chestnut St. to tracks of Butte, Anaconda & Pacific Ry. Co.

Mont., Livingston—City Council plans an expenditure of $10,000 for paving Park St.

Mo., Kansas City—No bids were received by Board of Park Commissioners for grading Meyer Blvd. and the Paseo. Work will be readvertised. Estimated cost, $275,000. Noted Sept. 16.

Mo., Louisiana—City Council retained J. E. Schwab, Consult. Engr., Alton, Ill., to prepare plans for improving 10 blocks.

Ark., Jonesboro—City plans to gravel and curb Main St. from Nettleton Ave. to southern city limits.

Tex., Denison—(Official)—Bids will be received until 2 p.m., Oct. 19, by Robert Gerlach, City Secy., for approximately 13,000 sq.yd. of paving.

Okla., Eufaula—Citizens defeated $25,000 bond issue for roads. Noted Aug. 12.

Wash., Bellingham—City plans an expenditure of about $16,000 for concrete walks on Chestnut and Grant St.

Wash., Olympia—An expenditure of $48,175 planned by State Highway Commission for clearing and grubbing right-of-way of Olympic Highway.

Wash., Pullman—Bids will be received until Oct. 19 by Matilda F. Gannon, City Clk., for paving in District No. 26. L. V. Edwards, City Engr.

Wash., Waitsburg—City Council plans cement sidewalks on Third and Main St. and Coppel Ave., also to gravel and macadamize Fifth and Orchard St.

Calif., Eureka—County plans to sell $125,000 bonds for highway improvements.

Calif., Los Angeles—City plans to improve Serrano, Mariposa and 53d Ave. and Normandie St.

Ont., Stratford—Town Council plans to lay sidewalks on Mowat and Birmingham St. R. R. Lang, Clk.

B. C., Victoria—City Council plans to pave Blanshard St. C. H. Rust, Engr.

Bids In and Contracts Awarded

Mass., Arlington—Contract for constructing Summer St. Blvd. between Brattle and Forest St. awarded to FRANCIS L. MAGUE, at $6,160.

N. Y., Albany—Contract for grading and sodding cement walks and curbs on boiler-house site awarded to CRAMMOND CONSTRUCTION CO., at $7,445.

N. Y., Kenmore—Contract for paving Cornell Ave. awarded to H. P. BURGARD CO., Buffalo, at $10,500.

N. Y., New Berlin—(Official)—Contract for 1,800 lin.ft. concrete paving awarded to HUGH HEVERIN, Utica, at $10,742. E. F. Musson, Engr. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—(Official)—Lowest bids received by L. H. Pounds, Borough Pres., Oct. 6, for regulating, grading, paving, curbing and laying sidewalks on various streets were as follows: Bay 34th St. from 86th St. to Cropsey Ave., P. Turricano Co., at $12,717; William Ave. from Hegeman to Vienna Ave., Scilian Asphalt Paving Co., 41 Park Row, New York, N. Y. (Borough of Manhattan), at $3,933; 23rd Ave. from Cropsey Ave. to 86th St., J. J. Gilligan Contracting Co., 2314 Gravesend Ave., New York, N. Y. (Borough of Brooklyn), at $8,975. Noted Sept. 30.

N. Y., New York—(Borough of Queens)—(Official)—William T. Maxwell, Flushing, N. Y., at $4,885, submitted lowest bid for improving Jerome Ave. from Boyd to Greenwood Ave., Fourth Ward, and Peace Bros., 20 Main St., Flushing, N. Y., at $4,917, for improving South Ave. from New York Ave. to Rockaway Turnpike. Noted Sept. 30.

N. Y., New York—(Borough of Richmond)—(Official)—Bids were received Oct. 5 for regulating, grading and paving Barrett Blvd., Freylinghuysen Rd. and Havenwood Rd. as follows: Joseph Johnson's Sons, $24,919 (low bidder); J. E. Donovan, $29,078; C. Vanderbilt, $25,069.

N. J., Belleville—Contract for paving Eckle St. in Silver Lake Section awarded to NORTHERN CONSTRUCTION CO., Belleville, at $2.12 per sq.yd. Noted Aug. 26.

N. J., Kearney—Contract for paving Brighton Ave. from Rutland to Afton St. awarded to NORTHERN CONSTRUCTION CO., at $11,216.

N. J., Newark—Bids were received by Board of Chosen Freeholders of Essex County for improving Essex Ave. from Summit to Warren St., as follows: Union Paving Co., $25,235; W. T. S. Crinchfield, $23,850; Standard Bitulithic Co., $25,701. Noted Aug. 19 and Sept. 30.

N. J., Newark—Bids were received by Board of Street and Water Commissioners for paving Chelsea Ave. from South Orange Ave. to city line as follows: W. T. S. Crichfield, $10,809; Newton Paving Co., $10,806; Northern Construction Co., $10,512. Noted Sept. 9 and 30.

N. J., Newark—Bids were received Sept. 30 for paving North Sixth St. from Fourth Ave. to Park Ave. as follows: Glenfield Construction Co., Newark, $8,332; Northern Construction Co., Newark, $8,577; Standard Bitulithic Co., Newark, $8,592. Noted Sept. 23.

Penn., Erie—Contract for widening East Sixth St. awarded to J. & M. DOYLE, at $6,954.

Md., Annapolis—Contract for State-Aid roadway from Curtis Bay to Wagner's Point, Fifth District, awarded to SMITH & RUGGLES, 2680 Dulany St., Baltimore.

Md., Baltimore—All bids received for paving Elliott Driveway rejected by Board of Awards. Work will be readvertised. Noted Sept. 16 and Oct. 17.

Md., Baltimore—Contract for paving Alamede Rd. awarded to AMERICAN PAVING CO., Baltimore, at $16,923. Noted Sept. 9 and Oct. 7.

Md., Baltimore—Contract for road near Stockton awarded to RUSSE PARKER CONSTRUCTION CO., Hudson, at $15,793.

Md., Easton—(Official)—Commissioners of Talbot County rejected all bids for section of State-Aid highway along Harrison St. and have decided to do the work by county forces. Noted Sept. 30.

Md., Snow Hill—Contract for concrete roadway in Worcester County awarded to RUSSO PARKER CONSTRUCTION CO., Hudson, N. Y., at $15,793.

W. Va., Parkersburg—Contract for paving 19th St. from Murdoch Ave. to Avery St. awarded to PARSONS CONSTRUCTION CO., Brownsville, Penn., at $4,890.

S. C., Gaffney—Contract for paving Limestone St. awarded to SOUTHERN PAVING AND CONSTRUCTION CO., Chattanooga, Tenn., at $1.64 per sq.yd. Noted Aug. 26.

Ala., Gastonburg—CENTRAL ALABAMA CONSTRUCTION CO., at $70,000, awarded contract for road from Gastonburg to Clark County line.

Tenn., Columbia—Contract for paving various streets awarded to SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., at about $50,000.

Tenn., Memphis—Bids were received for paving a part of Front St. with wood block as follows: Koehler Bros.-Fowler Construction Co., $7,380; E. J. Wetterstrohm, $7,509; Turney & Thomas, $7,744.

Ky., Madisonville—A. A. SMITH, at $23,139, awarded contract for piking four miles Greenville, Hopkinsville, Princeton and Calhoun Rd.

Ky., Mayfield—Contract for 10¾ miles of road between Mayfield and Graves County line awarded to C. E. CRESAP & BRO., Humboldt, Tenn., at $25,852.

Ky., Newport—Schoolfield & Jones, at $9478, submitted lowest bid for paving Tenth St.

Ky., Vanceburg—Contract for 21¼ miles of road over Concord Hill awarded to W. H. KNAPP, at $11,338.

Ohio, Conneaut—Contract for paving State St. awarded to JOHN McCORMICK & SON, Erie, Penn., at $29,844.

Ohio, Coshocton—Contract for paving a portion of East Main St. awarded to JOHN HALL at $5,327.

Ohio, East Liverpool—(Official)—Contract for Improving Jethro-Hollow Rd. awarded to McLAUGHLIN & ALLISON, at $31,268; Park Way Rd. to PATTERSON & GRAFTON, at $22,917. Noted Sept. 30.

Ohio, Letonia—Contracts for paving awarded as follows: FRANK GEORGE, Pittsburgh, Penn., at $29,968, for 2.95 miles; M. P. CONNELLY & SON, Youngstown, at $34,719, for 16,023 sq.yd.

Ohio, Mt. Gilead—Contract for paving Neal Ave. with brick awarded to GRAVES, BARRETT & LEECH, New London, at $5,637.

Ohio, Mt. Vernon—J. J. Kile, Mt. Vernon, at $7,430, submitted lowest bid for paving Ganzier Ave. with wire-cut brick, and C. L. Wright, Mt. Vernon, at $7,126, for repressed brick.

Ohio, Napoleon—Contract for extension of Napoleon-Wauseon Rd. awarded to A. L. STRAYER, Liberty Center, at $5,972. Noted Sept. 23.

Ind., Angola—(Official)—Contract for two gravel roads awarded to ALLISON FULTON, Bluffton, at $7,600 and $7,250 respectively. Noted Sept. 23.

Ind., Bloomington—Union Asphalt Co., Indianapolis, at $16,326, submitted lowest bid for paving East Sixth St. from Washington St. to Indiana Ave.

Ind., Brazil—(Official)—Contract for gravel road between Jackson and Cass Townships awarded to CAMPBELL & HAWKINS, Brazil. Noted Sept. 16.

Ind., Crawfordsville—(Official)—Contract for road in Ripley Township awarded to WILLIAM McCARTHY, Lebanon, at $6,000. Noted Sept. 23.

Ind., Ft. Wayne—Contract for paving awarded to MOELLERING & GRACE CONSTRUCTION CO.

Ind., Franklin—Contract for gravel road in Pleasant Township awarded to BYERS & BYERS, Trafalger, at $4,750. Noted Sept. 23.

Ind., Indianapolis—Contract for paving Kenwood Ave. between 30th and 38th St. awarded to MARION COUNTY CONSTRUCTION CO., Indianapolis, at $24,829.

Ind., Lebanon—(Official)—Contract for two gravel roads in Perry and Washington Townships awarded to JACKSON BROS., Lebanon, at $6,524, for Anderson F. Smith Rd., and WILLIAM E. BOLTS, at $5,237, for Lon Robinson Rd. Noted Sept. 23.

Ind., Monticello—(Official)—Contract for gravel road in Liberty Township awarded to G. A. KELLENBURGER, Reynolds, at $6,800. Noted Sept. 23.

Ind., Muncie—Contract for macadamized road in Delaware County awarded to CURTIS V. RECTOR, Muncie, at $9,000. Noted Sept. 16.

Ind., New Albany—Contract for reconstructing seven miles of Taoli Pike in Lafayette and Greenville Townships awarded to W. F. WOODRUFF, Louisville, at $41,000.

Ind., Rockport—(Official)—Contract for road in Ohio Township awarded to RUMDMAN CONSTRUCTION CO., Petersburgh, Ind., at $11,499. Noted Sept. 23.

Ind., Rockville—Contract for paving north side of public square awarded to EDWARD PATTON, Veedersburg, at $5,225.

Ind., Winamac—(Official)—Contract for road work in Tippacanoe Township awarded to JOHN BAIR, Winamac, at $8,900. Noted Sept. 23.

Mich., Detroit—Contract for improving Dwight and Dexter Blvd. awarded to DETROIT ASPHALT PAVING CO., at $5,177 and $28,627 respectively.

Ill., Chicago—Contract for paving awarded to AMERICAN ASPHALT CO., at about $145,000.

Ill., Decatur—(Official)—Contract for 17,000 sq.yd. brick pavement and for combined curb and gutter awarded to S. A. TUTTLE, Decatur, at $34,712. Noted Sept. 8.

Ill., La Salle—Contract for improving 11th and Hennepin St. awarded to T. W. KEYS, La Salle, at $13,935.

Ill., Moline—A. E. Ruthledge, Rockford, at $27,513, submitted lowest bid for paving road of Fredericks Hill to Bridge Lane and Milan Rd.

Ill., Rockford—Contract for paving Mulberry St. and portions of Oakley Ave. and Andrews St. awarded to F. K. CARRICO, at $19,000.

Ill., St. Charles—Bids were received for improving parts of East Main and West Main St. as follows: Western Improvement Co., Racine, $55,391; Arwin E. Price, Elgin, $56,698; Logan & Giertz, Elgin, $56,958. Noted Sept. 16.

Ill., Urbana—Contract for paving East Main St. awarded to STIPES & PILCHER, at $6,000.

Wis., Green Bay—(Official)—Contract for grading and placing gravel or crushed stone on portions of West Main St. awarded to C. S. McDONALD, Green Bay, at $4435. Noted Sept. 30.

Wis., Milwaukee—Contract for paving, grading, guttering and curbing Center St. from Teutonia to Fond du Lac Ave. awarded to BADGER CONSTRUCTION CO., Milwaukee, at $30,082; contract for paving Clybourn St. from 8th to 13th St. awarded to GEORGE CZERWINSKI, Milwaukee, at $20,200.

Wis., Milwaukee—Contract for 7,000 sq.yd. creosoted block awarded to CHICAGO CREOSOTING CO., Chicago, at $1.27 per sq.yd.

Wis., Racine—Contract for grading Osborne Blvd. awarded to JAMES CAPE & SONS.

Wis., Sheboygan—Contract for paving Ontario Ave. from Fifth to Third St. awarded to JOHN BRAUN, at $4,767.

Iowa, Clinton—Contract for approximately 59,000 sq.ft. of sidewalk awarded to C. M. NEAL. Estimated cost, $7,500.

Iowa, Guthrie Center—Contract for paving 30 blocks awarded to MOORE-SIEG CONSTRUCTION CO., at $69,878. Noted Sept. 2 and Oct. 7.

Minn., Duluth—Contract for paving 58th Ave., West, from Elinor to Eighth St. awarded to A. HEPENBERG, at $4,079.

Minn., Duluth—Contract for paving State Rural Highway No. 82, in Cass and Hubbard Counties, awarded to BRANDENBERG CONSTRUCTION CO., Minneapolis, at $180,000. Noted Sept. 23.

Minn., Red Lake Falls—Contract for Pembina Road Trail, Red Lake County, awarded to M. BARRETT CO., Herman, Minn.

Minn., Redwood Falls—Contract for State Road No. 71 through Kintire Township awarded to J. W. MINTO and WILLIAM SMITH, JR.

Kan., Pittsburg—All bids for paving 12 blocks on Walnut and College Ave. rejected. New bids will be received. Noted Sept. 9.

Kan., Wichita—Contracts for paving awarded as follows: 2d St. from Market St. to Washington Ave. to HARRY L. MILES, Wichita, at $25,983; Belmont Ave. from Douglas to English St., English St. from Fountain to Belmont Ave., and Fountain Ave. from Douglas to English St. to WILLISTON CONSTRUCTION CO., Chicago, Ill., at $15,436.

Neb., Omaha—Contract for grading various streets of city awarded to KEIRLE CONSTRUCTION CO., Florence.

N. D., Minot—Bids received Oct. 4 by Board of City Commisisoners for street improvements as follows: Joseph Sampson, $34,846; C. B. McUamara & Co., $35,249; MINOT CONSTRUCTION CO., $33,741 (awarded contract). Noted Sept. 30.

N. D., Wahpeton—Contract for paving Dakota Ave. awarded to GREAT NORTHERN BRIDGE CO., Minneapolis, Minn.

Mont., Bozeman—Contract for paving Tracy and Bozeman Ave. awarded to WARREN CONSTRUCTION CO., at $14,050 and $11,687 respectively.

Mont., Great Falls—Contract for paving around Whitier Park awarded to F. BIRCH & SON, at $24,599.

Mo., Oregon—Contract for grading, paving, curbing and guttering a number of streets awarded to A. JAICKS CO., 510 American Bank Bldg., Kansas City, at about $36,000.

Mo., St. Joseph—DUBOIS & PETER CONSTRUCTION CO., awarded contract for paving Gordon Ave. from Illinois to Michigan Ave.

Tex., Athens—Contract for paving awarded to SMITH BROS. & LA RUE, Crockett, at $18,000.

Okla., Pawnee—Contract for paving Street Improvement District No. 1 awarded to M. A. SWADEK & CO., Oklahoma City, at $51,419. Noted Sept. 30.

Wash., Ellensburg—Contract for grading two miles of Ellensburg and Peshaskin Road awarded to QUIGG CONSTRUCTION CO., Wenatchee, at $5,595.

Wash., Seattle—Contract for improving West Massachusetts St. awarded to CASCADE CONSTRUCTION CO., Central Bldg., Seattle, at $33,984.

Wash., Seattle—Contract for paving Mill St. awarded to E. ARNOLD & CO., Seattle, at $11,260.

Wash., Seattle—Lowest bid received for improving east and west Green Lake Way was that of R. G. Stevenson, 1327 Ewing St., Seattle, at $103,303.

Wash., Seattle—Lowest bid received for improving East Marginal Way was that of Puget Sound Bridge and Dredge Co., Seattle, at $80,957.

Wash., Yakima—Contract for graveling 1⅛ miles on Summitview Rd. awarded to A. H. ZANE & CO., at $6,739.

Wash., Yakima—Contract for Wenan Rd. awarded to THOMAS GINGLE, at $7,825.

Ore., Portland—OSKAR HUBER, Portland, at $10,635, awarded contract for paving Upper Washington St.

Ore., Tillamook—Contract for paving Second Ave. awarded to F. C. FELDSCHAU, Tillamook, at $7,089.

Calif., Los Angeles—CALIFORNIA-ARIZONA CONSTRUCTION CO., at $32,297, awarded contract for improving Rampart Blvd. from First to Sixth St.

Calif., Ontario—Ford & Stout, Bradbury Bldg., Los Angeles, at $57,088, submitted the lowest bid for improving Euclid Ave. Noted Sept. 23.

Calif., San Fernando—Contract for paving Grand Blvd. between San Fernando Mission and southerly end of Hickson Ranch awarded to FAIRCHILD-GILMORE-WILTON CO., Los Angeles.

Calif., San Jose—Contract for four and one-half miles of macadam road awarded to J. M. McDONALD, at $49,497.

Calif., Stockton—Contracts for paving awarded as follows: Van Buren and Monroe St. to A. B. MUNSON & SON, Stockton, at $13,100; Della and Lafayette St. to R. C. TUMELTY, Stockton, at $14,302.

Que., Chateauguay—Contract for macadam roads awarded to JULIEN TOUSSAINT CO., 2743 St. Hubert St., Montreal. Estimated cost, $6,000.

Ont., London—Contract for paving Wharncliffe Rd. and constructing sewer on Grey St. awarded to FIELDER CONSTRUCTION CO., William St., London, at $5,054.

Ont., Toronto—Contract for paving a portion of Scarborough Rd. awarded to ASHPHALTIC CONCRETE CO., Toronto, at $8,430.

Man., Rosser—Contract for grading awarded to A. R. BOIVIN, 303 Notre Dame Investment Bldg., Winnipeg, at $5,200.

INDUSTRIAL WORKS

Proposed Work

Conn., Bridgeport—Bids will soon be received by F. A. Cooper, Arch., for five-story, 65x100-ft. concrete and brick warehouse for Logan Bros. Noted Sept. 16.

N. Y., New York—(Borough of Brooklyn)—F. A. Koch Mfg. Co. will build six-story loft building at Flatbush Ave. Extension and Bridge St.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received in November for plant for Louis De Jonge & Co., 446 Richmond Turnpike, Tompkinsville. Valentine & Kissman, 25 Madison Ave., New York, Arch. Estimated cost, $400,000.

N. J., Belleville—L. Sonneborn Sons secured site adjoining present one and will build additional buildings.

Penn., Lebanon—Frackville Mfg. Co., 346 Broadway, New York, N. Y., will build three-story factory at Ninth and Skull St. Estimated cost, $25,000.

Penn., McKeesport—National Tube Co. plans addition to plant.

Penn., Millvale—Pittsburgh Rys. Co. will build car barn.

W. Va., Charleston—Du Pont de Nemours Co. will build magazines in Charleston, Martinsburg, Huntington, Piedmont, Bluefield, Scarboro, Kellogg, Blaine and Rock, W. Va. Estimated cost, $500,000.

N. C., Belmont—Imperial Yarn Mill Co. will organize company with $200,000 capital and will build cotton mill.

Fla., Jacksonville—Citizens' Ice & Cold Storage Co. plans to enlarge its plant. Horace Williams, Mgr.

Fla., Valrico—Fugazzie Commission Co. will build 60x100-ft. packing plant.

Ala., Gadsden—Gulf States Steel Co. plans improvements at estimated cost of $80,000.

Tenn., Memphis—Harris Iron & Supply Co. has plans by G. M. Shaw & Co. for warehouse on South Front St. near Linden Ave. Estimated cost, $20,000.

Tenn., Shelbyville—Valley Cotton Mills Co. will build mill. Estimated cost, $50,000. G. R. Adams, Pres. of Public Light & Power Co., interested.

Ohio, Bellaire—American Stamping & Enameling Co. will make improvements to its plant on Monroe St. Estimated cost, $10,000.

Ohio, Cambridge—Interstate Iron & Steel Co. will build plant in Cambridge.

Ohio, Cincinnati—Bids will soon be received by Ahrens Fox Fire Engine Co. for three-story, 42x120-ft. addition. Bert Baldwin & Co., Perin Bldg., Engr.

Ohio, Cincinnati—Cincinnati Grain Co. will build hay elevator and warehouse at 31 Water St.

Ohio, Cincinnati—City Ice Delivery Co. will soon construct ice plant at Price and Elberon Ave. Bernard T. Wisenall, Arch. Noted Aug. 12.

Ohio, Cleveland—Cleveland Electric Metal Co. has plans for foundry and addition to its plant on West 38th St. Burchart-Roberts-Wales Co., Swetland Bldg., Cleveland, Arch.

Ohio, Cleveland—Johns Machine & Stamping Co. will build factory at Columbus and Leonard St. Benjamin F. Johns, Pres. Estimated cost, $80,000.

Ohio, Cleveland—Parish & Bingham Co. has plans by Ernest McGeorge, Leader-News Bldg., for addition to its plant at Madison Ave. and West 106th St.

Ohio, Cleveland—Standard Welding Co. will build addition to its factory at 1280 East 73rd St. Estimated cost, $180,000.

Ohio, Cleveland—Taber Ice Cream Co. will build ice cream factory addition at 3500 Payne Ave. Estimated cost, $25,000.

Ohio, Cleveland—Ward Baking Co. will build bakery at Perkins and East 40th St. Estimated cost, $250,000.

Ohio, Columbus—Bids being received by N. Bradford, Arch., for two-story shop building for Ohio State University. Estimated cost, $120,000. Noted Sept. 23.

Ohio, Norwood—Concrete Flooring Co. of Kentucky will build 135x164-ft. factory on Baker St. near Sherman Ave.

Ohio, Toledo—Plans being prepared by M. & M. Stophlet, 606 Nasby Bldg., for two-story and basement, 60x120-ft. factory for Arrow Mfg. Co. Estimated cost, $25,000.

Ind., Evansville—Bids will be received about Nov. 1 by Clifford Shipbell & Co., Arch., for five-story, 50x150-ft. factory for Anchor Supply Co. Noted Sept. 2.

Ind., Jasper—Jasper Mfg. Co. having plans prepared by Clifford Shipbell & Co., Evansville, for one-story, 60x500-ft. furniture factory.

Mich., Detroit—Studebaker Automobile Corporation will build addition to its plant at 1216 West Jefferson St. Estimated cost, $30,000.

Mich., Hancock—S. Michelotti Co. will build macaroni factory in West Hancock.

Ill., Chicago—Shampay Bros. will build one-story factory at 4621 Cottage Grove Ave. A. S. Alschuler, Arch. Estimated cost, $17,000.

Ill., Chicago—S. N. Crowen, 30 North La Salle St., preparing plans for seven-story mill construction building at Kingsbury and Ontario St. for Winston & Co. Estimated cost, $100,000.

Ill., Decatur—E-Z Opener Bag Co. plans three-story, 96x340-ft. factory on Pine St. Estimated cost, $30,000.

Ill., Peoria—Barker & Wheeler Co. will build warehouse on South Washington St. near Oak St.

Ill., Quincy—John Musolino and Salvador Bonansinga will build four-story warehouse at 644 Jersey St.

Wis., Milwaukee—Leenhouts & Guthrie, 424 Jefferson St., Milwaukee, prepared plans for three-story, 40x120-ft. building for Phoenix Printing Co.

Iowa, Des Moines—Bids will be received until Oct. 15 by Charles W. De Jarnette, Equitable Bldg., Des Moines, for one- and two-story, 115x200-ft. concrete and brick factory for New Monarch Machine and Stamping Co. Estimated cost, $200,000.

Iowa, Waterloo—Bids being received for four-story and basement, 116x120-ft. brick factory for Waterloo Overland Co. Clinton P. Shockley, Arch. Estimated cost, $100,000. Noted Sept. 16.

Minn., Duluth—Western Rug Co. has plans for addition to its rug factory at 63rd Ave. and Grand Ave. Estimated cost, $18,000.

Minn., Hopkins—American Improved Seat Co. will build plant for manufacture of its specialty. A. C. Webber, Pres.

Kan., Wichita—Schermuly Mfg. Co. will build factory and foundry on Missouri Pacific R.R. line.

Tex., Bonham—Steger Milling Co. will make improvements to its flour mill. Estimated cost, $50,000.

Tex., El Paso—J. S. Curtis and associates will build factory for waterproofing fulminating mining cap protectors. W. H. Wilson, Denver, Colo., Mgr.

Tex., El Paso—Plans being prepared for factory for Miller Mfg. Co. W. H. Wilson, Gen. Mgr.

Tex., Houston—Houston Oil Co. will build lumber mills at East Texas.

Tex., San Antonio—(Official)—Edward Friedrich, 802 East Commerce St., advises that construction of new factory will not be undertaken this year. Noted Sept. 30.

Okla., Blackwell—Uncle Sam Oil Co. contemplates refinery at Blackwell.

Wash., Seattle—Bids will be received until Oct. 20 by Port of Seattle Commission, C. E. Remsberg, Secy., for four-story addition to Commission's warehouse on Whatcom Ave. Estimated cost, $150,000. J. R. West, Ch. Engr.

Wash., Tacoma—George W. Onn, Tacoma, contemplates saw mill on Jones Creek near Pe Ell.

Calif., Eureka—Municipal Water Department will build shop at Sixth and C St. Estimated cost, $10,000.

Calif., Grass Valley—Nevada County Narrow Gage Ry. Co. will rebuild its shops which were recently destroyed by fire. Estimated cost, $40,000.

Que., Valleyfield—National Paper Co., Montreal, will build addition to its plant at Valleyfield. Estimated cost, $100,000.

Ont., Walkerville—Kelsey Wheel Co., Ltd., will make extensions to its plant. Estimated cost, $10,000.

Bids In and Contracts Awarded

N. H., Franklin—Contract awarded to J. W. BISHOP CO., Worcester, Mass., at about $100,000, for three-story, 76x158-ft. mill addition for Sulloway Mills.

Mass., Boston—Contract awarded to WILLIAM F. KEARNS CO., 240 Albany St., for three-story, 70x242-ft. reinforced-concrete building on Blandford St. for Albert Geiger, Jr.

Mass., Brighton—Contract awarded to HARDY & STREETER, 95 Milk St., Boston, at about $60,000 for five-story, 60x100-ft. warehouse. G. N. Meserve, 95 Milk St., Boston, Arch.

Mass., Salem—Contract awarded to EDWARD W. WHEELER, Worcester, at $15,000, for warehouse for C. A. Ketchum.

Mass., Watertown—Contract awarded to C. A. DODGE CO., 15 Exchange St., Boston, at about $10,000, for one-story, 65x97-ft. garage for W. C. Barnard.

Mass., Worcester—Contract awarded to E. J. CROSS CO., for two additional factories for Spencer Wire Co.

R. I., Pawtucket—Crown Mfg. Co. awarded contract to J. W. BISHOP CO., Worcester, Mass., at about $38,000, for storehouse and picker building.

R. I., Providence—Gorham Mfg. Co. awarded contract to H. WALES LINES CO., Meridan, Conn., for three one-story brick additions.

N. Y., Hempstead—Contract awarded to KERWIN ESTERBROOKE CONSTRUCTION CO., INC., Hempstead, at $10,000 for one-story, 70x100-ft. garage at Main St. and Stowe Pl. for Main St. Garage Co.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to E. BROOKS & CO., 3 West 39th St., for 12-story printing building for Estate of Andrew Finck. Crow, Lewis & Wickenhoefer, Arch. Noted Sept. 30.

N. Y., New York—(Borough of Queens)—Contract awarded to FRANK SEERY, 30 East 42 St., Manhattan, for one-story, 50x90-ft. garage on Second Ave., Long Island City for John McLaughlin, 346 East 81 St., Manhattan.

N. Y., Rochester—Contract awarded to WILLIAM F. MARTENS CO., at $30,000, for factory at 267 Mill St. for George W. Brownyard Co., Inc. Noted Oct. 7.

N. J., Camden—Contract awarded to GEORGE BACHMAN, 19 North 30th St., Camden, at about $45,000, for three-story, 80x129-ft. garage and service station for New Jersey Auto and Supply Co., Delaware Ave. and George St. Noted Aug. 26.

N. J., Elizabeth—(Official)—Contract awarded to H. D. BEST & CO., 52 Vanderbilt Ave., New York, N. Y., at $75,000, for buildings for Borne Scryniser Co.

N. J., Jersey City—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., for factory at Bay and Provost St. for Great Atlantic & Pacific Tea Co.

N. J., Newark—Contract awarded to CHARLES S. COOPER by F. W. Devoe & C. T. Raynolds Co. for addition to its varnish factory. Estimated cost, $25,000.

Penn., Manayunk—Contract awarded to TURNER CONCRETE STEEL CO. for two-story, 62x198-ft. addition to woolen mill of Robert Krook, Walnut Lane and Main St.

Penn., Philadelphia—Contract awarded to HOFFMAN ENGINEERING & CONSTRUCTION CO., at about $100,000, for two-story, 212x540-ft. shop at Norris and Richmond St. for William Cramp Sons' Ship and Engine Building Co. Noted Oct. 7.

Penn., Reading—(Official)—Contract awarded to L. H. FOCHT & SON, Reading, for two-story factory for Carpenter Steel Co. Noted Oct. 7.

Md., Baltimore—Contract awarded to CHARLES L. STOCKHAUSEN CO., for 75x275-ft. plant for Baugh Chemical Co.

Ky., Glencoe—Contract awarded to W. H. HEILMAN for 128x228-ft. steel warehouse for Glencoe Loose Leaf Warehouse Co.

Ohio, Canton—Contract awarded to E. J. LANDOR, at about $20,000 for five-story, 50x66-ft. addition to the plant of Dannemiller Grocery Co.

Ohio, Cleveland—Contract awarded to ANDERS CONSTRUCTION CO., Engineers Bldg., Cleveland, at $20,000, for one-story cold storage plant addition to plant of Blumenstock & Reid Co.

Ohio, Cleveland—Contract awarded to J. T. RICHARDS, 822 Citizens Bldg., for two-story factory at East 78th St. and Wheeling & Lake Erie R.R. for Champion Machine & Forging Co.

Ohio, Cleveland—Contract awarded to PACKARD BUILDING CO., for sales and service station on Carnegie Ave. near East 55th St. for Packard Motor Co. Estimated cost, $125,000.

Ohio, Cleveland—Contract awarded to SAMUEL AUSTIN & SON CONSTRUCTION CO., 14230 Euclid Ave., for two-story, 70x400-ft. addition to plant of Standard Oil Co.

Ohio, Cleveland—Contract awarded to CROWELL-LUNDOFF-LITTLE CO., 1951 East 57th St., at about $70,000, for five-story, 112x112-ft. factory addition to plant of Warner & Swasey Co., 5809 Carnegie Ave.

Ohio, Newport—Contract awarded to ADER CONSTRUCTION CO., Newport, at about $10,000, for warehouse for Becker Bros. & Co.

Mich., Detroit—Contract awarded to BRYANT & DETWILER CO., Detroit, for two factories at East Grand Blvd. and Michigan Central R.R. for Packard Motor Car Co.

Mich., Detroit—Contract awarded to ROGOWSKI BROS. & WEDDA for factory on Confiant Ave. and Grand Trunk R.R. for Vanguard Mfg. Co.

Mo., Kansas City—Contract awarded to R. F. WILSON & CO., Chicago, Ill., at about $300,000 for four-story, 113x267-ft. factory at 13th and Campbell St. for American Can Co., 447 West 14th St., New York, N. Y.

Ark., Helena—Contract awarded to DOYLE & CO., Cotton Plant at about $65,000, by Interstate Grocery Co. for warehouse.

Colo., Pueblo—Contract awarded to ELMER BRECKENRIDGE for warehouse at C and Lamkin St. by A. Adams and will be occupied by Sage Transfer Co.

Ore., Astoria—Contract awarded by Astoria Port Commission to H. E. DOERING, Portland, at $22,658 for grain elevator.

FEDERAL GOVERNMENT WORK

Proposed Work

Riprap—Tompkinsville, N. Y.—Bids will be received at office of Lighthouse Inspector, Tompkinsville, until 2 p.m., Oct. 26, for riprap at Centerville and Saltersville Lights, Newark Bay, N. J.

Bridge and Trestles—Pittsburgh, Penn.—Bids will be received at U. S. Engineer Office, Pittsburgh, until noon, Nov. 5, for service bridge and Poiree trestles at Dam No. 10, Ohio River. (See adv.)

Tank and Tower—Indian Head, Md.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 30, for 250,000-gal. steel water tank and tower at naval proving ground, Indian Head.

Sewer—Washington, D. C.—Bids will be received at Office of Commissioners of District of Columbia, Room 509, District Bldg., until 2 p.m., Oct. 19, for sewers in District of Columbia.

Shell House—Norfolk, Va.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Oct. 30, for one shell house at naval magazine, Norfolk.

Post Office—Huntington, W. Va.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m. Nov. 16, for United States post office at Huntington.

Cranes—Charleston, S. C.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 20, for two shipbuilding cranes at navy yard, Charleston.

Post Office—Elyria, Ohio—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for United States post office at Elyria.

Post Office—Boise, Idaho—Bids will be received by James A. Wetmore, Act. Superv., Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 18, for extending and remodeling United States post office at Boise.

Metal Supplies—Panama—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, until 10.30 a.m., Oct. 20, for metal supplies.

Miscellaneous and Metal Supplies—Panama—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, until 10:30 a.m., Oct. 18, for miscellaneous and metal supplies.

Bids In and Contracts Awarded

Cement, Sand and Gravel—New Orleans, La.—Contract for cement, sand and gravel at Southwest Pass, Mississippi River, awarded to LESTER E. ALEXANDER, New Orleans, at $19,220. Noted Sept. 16.

Post Office—Covington, Tenn.—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Covington as follows: Algernon Blair, Montgomery, Ala., $33,800; William H. Fissell & Co., New York, N. Y., $35,700; George W. Stiles Construction Co., Chicago, Ill., $34,447.

Piling—Louisville, Ky.—Contract for piling for Dam No. 43, Ohio River, awarded to CARNEGIE STEEL CO., Philadelphia, Penn., at $34,111. Noted Sept. 30.

Machinery—Cincinnati, Ohio—Bids were received at U. S. Engineer Office for furnishing and installing operating machinery at Dam No. 29, Ohio River, from: J. & J. B. Milholland Co., 714 Fifth Ave., Pittsburgh, Penn., $9,321, and Miller Supply Co., Huntington, W. Va., $9,314. Noted Sept. 26.

Post Office—Everett, Wash.—Contract for United States post office at Everett awarded to HENRICKSON & CO., Seattle, at $111,519.

Naval Improvements—Pearl Harbor, Hawaii—Contract for improvements at Naval Station, Pearl Harbor, awarded to HAWAIIAN DREDGING CO., Honolulu, at $155,900. Noted Sept. 23.

CANALS DITCHES—IRRIGATION

Proposed Work

Canals—Silver City, Miss.—Bids will be received until Oct. 22 by Atchafalaya Drainage and Levee District for 15 miles of canals and 90,000 cu.yd. of levees.

Drainage—Lafayette, La.—Citizens of Lafayette Parish, Indian Bayou, Subdrainage District, District No. 1, voted $34,000 bonds for drainage system.

Drainage—Monroe, La.—Bonds for $20,000 sold for draining Jack Creek.

Drainage—Henderson, Ky.—(Official)—Bids will be received until 1:30 p.m., Oct. 27, by Board of Drainage Commissioners of Henderson County, for 34,810 ft. drainage ditch. Peter Manion, Pres.

Drainage—Pearl, Ill.—J. E. Schwab, Alton, preparing plans and will superintend drainage and levee improvements.

Ditch—Sycamore, Ill.—Citizens of Kane and De Kalb Counties plan to widen and deepen Maple Park Cortland Virgil Drainage District No. 1. Estimated cost, $20,000. Hay & Lowman, Sycamore, Engr.

Drainage—Kenosha, Wis.—Bids will be received until 3 p.m., Oct. 28, by Supervisors of Town of Bristol, Kenosha County, for drainage system for Bristol Drainage District.

Drainage—Bedford, Iowa—Bids will be received until noon, Oct. 15, by Board of Supervisors of Taylor County for new channel for East Nodaway River in Drainage District No. 3. J. N. Hughes, County Audr.

Drainage—Oskaloosa, Iowa—Plans prepared for Mahaska County drainage district.

Ditches—Bullard, Minn.—(Staples post office)—Citizens contemplate ditching about 11 miles of main ditches and five miles of branches. Gottfrid Anderson, Secy.

Ditch—Caledonia, Minn.—(Official)—Bids will be received by Auditor of Houston County, until Nov. 2, for judicial ditch No. 1. George Ralph, Engr.

Irrigation—Billings, Mont.—Billings Bench Waterusers' Association has taken over the Billings Land & Irrigation Co. and will build canals in upper section.

Drainage—Carrollton, Mo.—Bids will soon be received by Sugar Creek Drainage District Commissioners for 16 miles of open ditch work. E. H. Quisenberry, Clk.

Drainage—Edna, Tex.—Bids will be received about Oct. 28 by A. E. Landin, Chn., Jackson County Drainage District No. 8, for canals and levees. R. J. Bryan, Ganado, Dist. Engr.

Irrigation—Harlingen, Tex.—Bids will be received until Oct. 21, by Director of Cameron County Irrigation District No. 1 for extending canal, about 10,000 cu.yd. of excavation.

Irrigation—Santa Fé, N. M.—George E. Fosberg, Chicago, Ill., interested in a project to revive and complete Arroyo-Honde Irrigation project. Estimated cost, $75,000.

Drainage—Aberdeen, Wash.—Citizens voted in favor of establishing South Bay Drainage District. Estimated cost, $10,000.

Irrigation—Ephrata, Wash.—Grants Orchard Irrigation District organized to form irrigation district estimated to cost $75,000. A. H. Wilburn, Ephrata, Chn.

Irrigation—Medford, Ore.—Rogue River Canal Co. granted franchise to irrigate approximately 1000 acres south of Medford.

Irrigation—Modesto, Calif.—Bids will be received by C. S. Abbott, Secy., Bd. of Directors, Modesto Irrigation District, until Oct. 16, for enlarging main canal and tunnel, Modesto Irrigation District, between Raiden Falls and Upper Dominici, also for reinforced-concrete structures in lower main canal. Noted Sept. 23.

Irrigation—Visalia, Calif.—Election will be held Oct. 16 to vote irrigation of 18,000 acres in Lindsay-Strathmore water district.

Drainage—Westminster, Calif.—Citizens voted $25,000 bonds for drainage ditches. Noted Sept. 30.

Bids In and Contracts Awarded

Barge Canal Work—Albany, N. Y.—(Official)—Contracts for barge canal work awarded as follows: Improvement of Sawyer's Creek, North Tonawanda, to H. S. KERBAUGH, INC., 6 Church St., New York, N. Y., at $9,440; furnishing timber and plank for eastern division of New York State Canal, to H. V. BERRY, Ft. Plain, at $12,685; for middle division to W. J. DOWDLE, Oswego, at $15,440; for western division to G. ELIAS & BRO., INC., Bucalo, at $21,699. Noted Sept. 2 and 16.

Barge Canal Work—Albany, N. Y.—Contract for barge canal work under Terminal Contract No. 47 awarded to I. M. LUDINGTON'S SONS INC., Rochester, at $38,630. Noted Sept. 9 and Oct. 7.

Drainage—Aledo, Ill.—All bids received Sept. 24 by Central State Engineering Co., Hershey Bank Bldg., Muscatine, Iowa, for three contract sections of tile drain in Mercer County rejected. Noted Sept. 9.

Drainage—Adel, Iowa—Contracts for drainage work in Dallas County awarded as follows: Drain No. 32 to PAUL PAULSEN, Carroll, and HOOVER LUMBER CO., Dallas Center, at $8,215 and $16,734, respectively; Drain No. 36 to IOWA PIPE & TILE CO., Des Moines, at $4,689.

Drain—Clarion, Iowa—Board of Supervisors of Wright County rejected all bids for Drain No. 130.

Ditch—Estherville, Iowa—Contract for drainage ditch No. 100 awarded to A. EIKWOLD, Graettinger, at $16,755.

Ditch—Harlan, Iowa—Contract for 12-mile drainage ditch in Mosquito Creek, District No. 8, awarded to LANA CONSTRUCTION CO., at $55,926.

Ditch—Sibley, Iowa—(Official)—Contract awarded to H. R. WHITNEY, Emmetsburg, at about $15,000, for drainage ditch No. 22, Osceola County.

Drainage—Spencer, Iowa—Contract for improving Drainage District No. 22 awarded to CEMENT PRODUCTS Co., Spencer, at $183,254.

Drainage—Storm Lake, Iowa—Contracts awarded to NEWELL CEMENT TILE CO. for tile and to HARRY & JOHN CLINTON for drainage work in Drainage District No. 78, in Buena Vista County. W. W. Benntet, County Audr.

Ditch—Ada, Minn.—(Official)—Contract for repairing, enlarging and cleaning County Ditch No. 3 awarded to UNION DREDGING CO., Carrollton. Noted Sept. 30.

Ditch—Bemidji, Minn.—Contract for clearing and grubbing Ditch No. 31 awarded to G. W. CLIFFORD, Minneapolis, at $7,999; excavation to RIDER & JONES, Minneapolis, at $32,675; contract for Ditch No. 32 awarded to KOHLER CONTRACTING CO., Frazer, at **$7,762**.

Ditch—Worthington, Minn.—Contract for Ditch No. 42 awarded as follows: 132,348 cu.yd. open work to JAMES McKILLY, Waterloo, at 8.2c. per cu.yd.; tile work to P. L. RIVAED, Pocahontas, Iowa, at $12,700.

Drainage—Tekamah, Neb.—(Official)—Contracts for 500,000 cu.yd. of excavation on old ditches and 300,000 cu.yd. of new excavation awarded to MINNEAPOLIS STEEL & MACHINERY CO., L. MULLIN, E. D. BARR and J. W. BOYCE. Estimated cost, $112,000. Noted Sept. 23.

Drainage—Pocahontas, Ark.—Contract for drainage system in Little Aumey Water Drainage District awarded to A. B. WILLS & SONS, Paragould. Estimated cost, $40,000. J. A. Ryan, Corning, Engr.

Irrigation—Fowler, Colo.—OSCAR OLESON awarded contract for dam and other work in Apishapa Cañon. Estimated cost, $300,000.

Drainage—North Yakima, Wash.—(Official)—Contract for drainage system in Drainage Improvement District No. 27 awarded to DUNN & HOGAN, North Yakima, at $19,656. Noted Sept. 30.

MISCELLANEOUS

Proposed Work

Coal Pocket—Roxbury, Mass.—Batchelder Bros., Roxbury, will build coal pocket at 34 Hilton St.

Seawall, Bulkheads and Jetties—Winthrop, Mass.—Bids will be received until 11 a.m., Oct. 20, by Board of Harbor and Land Commissioners, for seawall, bulkheads and jetties along easterly shode of Point Shirley.

Frames—New York, N. Y.—(Borough of Manhattan)—Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Oct. 14, for furnishing 500 street sign container frames.

Track Supplies—New York, N. Y.—(Borough of Manhattan)—Bids will be received until 12:15 p.m., Oct. 15, by Public Service Commission of First District, 154 Nassau St., for ten portions of special work, frogs and switches for rapid transit railways.

Retaining Wall—Syracuse, N. Y.—Intercepting Sewer Board instructed by City Council to prepare plans for retaining wall along Onondago Creek.

Dredging—Newark, N. J.—Bids will be received until Oct. 21 by City of Newark for dredging portions of Passaic River. Plans on file with E. S. Rankin, City Hall, Newark.

Fire-Alarm System—Cumberland, Md.—Plans being considered to improve fire alarm system. J. S. Schriver, Water and Light Comr.

Piers—Lamberts Point, Va.—(Norfolk post office)—Norfolk & Western Ry. Co., having plans prepared for piers and office building. Southbound pier, 1200x200 ft., northbound pier, 800x200 ft. L. E. Johnson, Roanoke, Pres.

Coaling Dock—Pensacola, Fla.—Construction of coaling dock contemplated by Louisville & Nashville R.R.

Seawall—Gulfport, Miss.—Board of Supervisors of Harrison County contemplate $600,000 bond issue for seawall.

Waterways—Washington, La.—City plans deep water connection between Washington, Morgan City and New Orleans.

Wharf—Chattanooga, Tenn.—City plans to improve wharf and will issue $100,000 bonds. R. Hooke, City Engr.

Dykes—Wellsville, Ohio—Citizens plan bond issue of $50,000 for dykes.

Crib Protection and Dock Repair—Chicago, Ill.—Bids will be received by W. R. Moorhouse, Comr. Dept. of Pub. Wks. until Oct. 18, for protection crib in South Fork, south branch of Ohio River, 35th St., also for repairing existing dock at foot of Lumber St.

Towers—Waukegan, Ill.—Frame unloading towers at coal docks of Reiss Coal Co., recently destroyed by fire, will be rebuilt of steel. John P. Reiss, Gen. Mgr.

Docks—Milwaukee, Wis.—Pennsylvania Coal & Supply Co. contemplates new docks at Muskegon Ave. and Canal St.

Playgrounds—Salina, Kan.—Election will be held to vote on $40,000 bonds for playgrounds.

Wharves and Docks—Belmont, Tex.—Contract will soon be awarded for constructing wharves and docks at Belmont. Estimated cost, $100,000.

Levee—Ennis, Tex.—Citizens voted $121,000 bonds for levees on Trinity River, Ellis County, Levee District No. 2.

Riprap—Galveston, Tex.—Bids will be received by J. M. Murch, County Audr., until 1 a.m., Oct. 18, for approximately 20,000 tons of riprap for seawall.

Park Improvements—Houston, Tex.—George E. Kessler, St. Louis, Mo., prepared plans for George H. Herrmann Park. Estimated cost, $100,000.

Park—Ft. Morgan, Colo.—W. E. Cullen, Boulder, preparing plans for improving city park.

Subway—Tucson, Ariz.—City and Southern Pacific Ry. Co. plan to construct subway under railroad tracks at end of Congress St. Estimated cost, $70,000.

Race Track—Los Angeles, Calif.—George H. Shank, Los Angeles Speedway Association, Union Oil Bldg., plans high-speed automobile racing track at Bell Station. Estimated cost, $1,000,000.

Levee—Sacramento, Calif.—Construction of levee from Knights Landing to Colusa contemplated by Board of Directors of Sacramento River West Side Levee District. Estimated cost, $500,000.

Pier—San Francisco, Calif.—Contract will soon be awarded for pier at foot of Chestnut St. Estimated cost, $250,000.

Bids In and Contracts Awarded

Retaining Wall—Winthrop, Mass.—Contract for retaining wall at Winthrop Yacht Club awarded to FRANK J. McQUEENEY, 9 Atlantic St., Winthrop, Mass.

River Improvements—Hornell, N. Y.—(Official)—Contract for improving Canisteo River awarded to EASTOVER CONSTRUCTION CO., INC., Utica, at $38,543.

Extending Pier—New York, N. Y.—(Borough of Brooklyn)—Contract for extending Pier 22, near Jay St., North River, awarded to RIVERSIDE CONTRACTING CO., 39 Cortlandt St., New York, N. Y., at $22,366. Noted Sept. 23 and Oct. 7.

Pier Shed—New York, N. Y.—(Borough of Manhattan)—Contract for pier shed at West 23d St., North River, under Contract No. 1471, awarded to THOMAS T. WATERS, 271 West 125th St., New York, N. Y., at $36,600. Noted Sept. 16 and 30.

Boardwalk—Stone Harbor, N. J.—Franklin Engineering and Contracting Co., Philadelphia, Penn., submitted lowest bid for boardwalk at Stone Harbor. Bonds for $33,000 sold for this purpose.

Dredging—Trenton, N. J.—Bids were received Sept. 29 by State Department of Commerce and Navigation for dredging first section of Inland Waterway connecting Barnegat Bay with Manasquan River: Richards Dredging Co., Philadelphia, Penn. $0.158 per cu.yd. for excavation; Hill Dredging Co., Atlantic City, $0.174 per cu.yd. and D. X. Shubin, Philadelphia, $0.998. Benjamin F. Cresson, Ch. Engr.

Coal Storage—Philadelphia, Penn.—(Official)—Contract awarded to DAY & ZIMMERMAN, 611 Chestnut St., Philadelphia, at $28,772, for coal storage and appliances for Queen Lane pumping station. Noted Sept. 23.

Pier—Canton, Md.—(Baltimore post office)—Contract awarded to ARTHUR McMULLIN CO., Singer Bldg., at about $1,000,000, by A. C. Shand, Ch. Engr., Pennsylvania R.R. for coal pier. Noted Sept. 9.

Tunnel—Gassaway, W. Va.—(Official)—Coke and Coal Ry. Co. awarded contract for concrete lining of tunnel No. 10 to PIEDMONT CONSTRUCTION CO., Charlottesville, Va. F. D. Cosner, Engr. M. of W.

Coal Pier—Pensacola, Fla.—Contract for coal pier for Gulf, Florida & Alabama Ry. awarded to LINK-BELT CO., Chicago, Ill.

Dike—Baton Rouge, La.—DAMERON & WHITE, Baton Rouge, at $10,209, awarded contract for enlarging dike over University Lake and constructing roadway to dike.

Levee Work—New Orleans, La.—Contract awarded to DAMERON-WHITE CO. by State Board of Engineers for levee work for Red River, Atchafalaya and Bayou Boeuf.

Piers—Evanston, Ill.—Contract for 18 piers awarded to O. L. OLESON, 133 Moraine Rd., Highland Park, at $39,948. Noted Aug. 12.

Excavation—St. Louis, Mo.—Contract for excavating about 600,000 cu.yd. for University Park Realty Co. awarded to FRUIN-COLNON CONTRACTING CO., St. Louis, at 16.6c. per cu.yd.

Bulkhead—Seattle, Wash.—Puget Sound Bridge and Dredging Co., Seattle, at $80,957, submitted lowest bid for filling and bulkheading East Marginal Way. Noted Aug. 19.

BUILDINGS

Other items relative to Building Construction will be found under the following heads: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Proposed Work

N. H., Manchester—Plans prepared by Hitchins & French, 6 Beacon St., Boston, Mass., for four-story, 50x100-ft. brick and stone store and apartment for I. Shatton, care of architect. Estimated cost, $50,000.

Vt., Montpelier—Densmore & LeClear, 68 Broad St., Boston, Mass., preparing plans for library and supreme court building for state. Estimated cost, $150,000.

Vt., Poultney—Vermont Public Service Commission, Montpelier, ordered Delaware & Hudson Co. to construct passenger and freight station.

Mass., Boston—Bids will be received about Oct. 15 by A. A. Badaracco and I. Freedman, 357 Hanover St., for three-story, 31x288-ft. building at Haymarket Sq. F. A. Norcross, 46 Cornhill St., Arch. Estimated cost, $90,000. Noted Sept. 16.

Mass., Dorchester—Plans being prepared by Funk & Wilcox, 120 Boylston St., Boston, for Sarah Greenwood School, for city of Boston.

Mass., Hathorne—Bids will be received until Nov. 1 by Trustees of Independent Agricultural School for two-story, 55x160-ft. building. John H. Bickford Co., Boston, Arch.

Conn., Bridgeport—Bids will be received until Oct. 18 for normal school. Leonard Asheim, Bridgeport, Arch.

Conn., Hartford—Plans being prepared for four-story brick and stone building for Phoenix Insurance Co. Benjamin Morris, New York, N. Y., Arch.

Conn., Milford—Bids being received for brick and stone town hall. Tracy & Swartwout, New York, N. Y., Arch. Estimated cost, $120,000.

Conn., New Haven—Revised bids being received for church and parish house at Orange St. for German Lutheran Church. Estimated cost, $75,000. C. S. Palmer, Arch.

N. Y., Albany—Fuller Robinson Co., 95 State St., preparing plans for nine-story store and office building at 74 State St. for Kinney & Woodward Co., Waldorf Bldg. Estimated cost, $50,000.

N. Y., Albany—Charles L. Robinson, 577 Western Ave. and Michael J. Hawkins, 48 Orange St., contemplate three-story theater on Orange St. Estimated cost, $75,000.

N. Y., Binghamton—Improved Order of Red Men plans building. Estimated cost, $50,000.

N. Y., Buffalo—S. F. Heckert, Bessemer Bldg., Pittsburgh, Penn., preparing plans for 70x145-ft. church for St. John the Evangelist Church on Seneca St. Estimated cost, $75,000.

N. Y., Buffalo—Polish Falcons, Grunwalk Nest No. 58 and 6 plan gymnasium and club house. Estimated cost, $60,000.

N. Y., Hornell—Plans being prepared by E. J. Thompson, Arch., for three-story, 100x150-ft. building. Estimated cost, $75,000.

N. Y., Middletown—Bids will be received about Jan. 1 for six-story, 78x100-ft. bank and office building at North and Kings St. for Merchants' National Bank. Noted Sept. 16.

N. Y., New York—(Borough of the Bronx)—(Official)—Bids will be received until 10:30 a.m., Oct. 19, by Douglas Mathewson, Borough Pres., for alterations to Bronx Borough hall, at Third Ave. and 177th St.

N. Y., New York—(Borough of Manhattan)—Benjamin W. Mayer, 2 West 33d St., will build seven-story, 53x49-ft., store and office building at 54 Lexington Ave. Herman Lee Meader, 2 West 33d St., Arch.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received about Oct. 22 for lounge room for Hotel Biltmore at 43d St. and Madison Ave. for N. Y. Central R.R. Co. Warren & Wetmore, 16 East 47th St., Arch. Estimated cost, $50,000.

N. Y., New York—(Borough of Manhattan)—Plans prepared by Shape & Bready, Inc., 220 West 42nd St. for seven-story, 99x100-ft. building for New York College of Dentistry. Estimated cost, $250,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Hasco Bldg. Co., 245 West 55th St. will build 16-story, 78x94-ft. office building at Fourth Ave. and 28th St. Estimated cost $500,000. Walter Haefeli, 245 West 55th St., Arch.

N. Y., New York—(Borough of Richmond)—(Official)—Plans being revised by Mason R. Strong, 7 Wall St., New York, for three-story, 75x150-ft. brick orphan asylum at Ft. Wadsworth for Bethlehem Home. Estimated cost, $100,000. Noted Sept. 9.

N. Y., Potsdam—Plans being prepared by Lewis F. Pilcher, Capitol, Albany, for two-story Normal School for New York State Department of Education. Estimated cost, $300,000.

N. Y., Troy—Erection of high school contemplated by Catholic Church, diocese of Albany.

N. J., Ocean City—Bids will soon be received for club house for Ocean City Golf Club. Estimated cost, $50,000. Sauen & Hahn, Philadelphia, Penn., Arch.

Penn., Allentown—Bids will be received about Nov. 1, for six-story, 62x210-ft. building for Y. M. C. A. Louis E. Jallade, 37 Liberty St., New York, N. Y., Arch. H. W. Elridge, Gen. Secy. Noted Sept. 2.

Penn., Brackenridge—Election will be held Nov. 2 to vote on $60,000 bonds for school.

Penn., Harrisburg—Messiah Lutheran Church will build new edifice at Sixth and Foster St. Estimated cost, $75,000.

Penn., Lebanon—Bids will be received until Oct. 29 by Board of School Directors for high school. A. A. Richter, Reading, Arch. Noted Oct. 7.

Penn., Philadelphia—United Brethern in Christ will build mission at 12th St. and Wyoming Ave. Estimated cost, $75,000.

Penn., Philadelphia—Bids will soon be received for high school for Board of Education at Amber and Cumberland St. J. Horace Cook, Philadelphia, Arch.

Penn., Pittsburgh—Morris Kaufmann will build 20x110-ft. loft and store building at 713 Liberty Ave. H. E. Kennedy Co., Arch. Estimated cost, $60,000.

Penn., Pittsburgh—Atlantic Refining Co. will build 54x154-ft. office building at Butler and 57th St. Estimated cost, $100,000.

Md., Baltimore—Competitive plans will be received until Dec. 1 by Fourth Regiment Armory Commission, for armory at North and Maryland Ave. Estimated cost, $500,000.

Md., Baltimore—Council contemplates school at Lafayette Ave. and Poplar Grove St. Estimated cost, $120,000.

W. Va., Anderson—A. S. Russell will build three-story theater, office and Masonic temple.

W. Va., Bluefield—Plans prepared by Pedigo & Garry, Bluefield, for five-story brick business building at Federal and Scott St. for E. S. Pedigo Co.

W. Va., Clarksburg—United Schools Bldg. Co. recently incorporated with $300,000 capital, will build West Virginia Business College.

Ga., Atlanta—(Official)—Election to have been held Sept. 30 to vote $3,358,000 bonds, part of which to be used for schools and hospital, has been canceled. Noted Aug. 12.

Tenn., Chattanooga—University of Chattanooga will build campus building at cost of $75,000.

Tenn., Nashville—Nashville Property Co. will build five-story office building at Church and Polk St. for use of physicians. Estimated cost, $50,000.

Ky., Louisville—Plans prepared by Joseph & Joseph, Louisville, for citadel for Salvation Army. Estimated cost, $50,000.

Ohio, Athens—(Official)—Bids will be received until 9 a.m., Oct. 30, by Board of Trustees of Ohio University for women's dormitory. Isaac M. Foster, Secy.

Ohio, Canton—(Official)—Bids will be received until noon, Nov. 4, by Board of Education for high school. George F. Hammond, 4220 Prospect Ave., Cleveland, Arch. W. C. Lane, Clk. Noted Sept. 23.

Ohio, Carthagena—Elzner & Anderson, Cincinnati, prepared plans for women's building of Longview Asylum. Estimated cost, $250,000.

Ohio, Cleveland—Ernest Huberty prepared plans for three-story bank and office building for West Side Savings & Loan Co., at West 25th St. and Lorain Ave. Estimated cost, $50,000.

Ohio, Cleveland—W. S. Lougee, 500 Marshall Bldg., Cleveland, prepared plans for three-story apartment and commercial building at 1921 East 70th St., for Florentine Realty Co. Estimated cost, $48,000.

Ohio, Cleveland—Plans approved by City Plan Commission for three-story union passenger station for New York Central and Pennsylvania R.R. Co. Citizens will vote Nov. 2 on bonds. Graham, Burnham & Co., Chicago, Ill., Arch.

Ohio, Monroe—Bids being received by Rusk & Sheets, Arch., Columbus, for two-story and basement, 70x127-ft. school in Preble County. Estimated cost, $50,000. Noted Aug. 12.

Ohio, Niles—Bids will be received about Nov. 15 by C. F. Owsley, Arch., Youngstown, for six-story, 41x90-ft. bank building for Dollar Savings Bank. Estimated cost, $100,000.

Ohio, Northfield—Bids will be received until noon, Oct. 27, by G. L. Williams, Clk. Bd. of Education for school.

Ohio, Wilberforce—Bids will be received until Nov. 4 by Board of Trustees of Wilberforce University for gymnasium. Frank L. Packard, Columbus, Arch., also for recreation building. W. A. Joiner, Supt.

Ind., Evansville—Bids will be received about Oct. 31 for two-story and basement memorial coliseum for county. Clifford Shopbell & Co. Arch. Estimated cost, $125,000.

Ind., Terre Haute—Board of Education retained R. W. Leonard to prepare plans for school on Kafader site. Estimated cost, $130,000. Noted Oct. 7.

Ind., Washington—Bids will be received until Oct. 19 by Mayor and Common Council for completing city hall. J. W. Gaddis, Vincennes, Arch. and Willian Hoddinott, City Clk.

Ill., Chicago—Grace Episcopal Church will be rebuilt. Estimated cost, $500,000. William Otis Waters, Rector.

Ill., Chicago—Jackson Estate, care of H. S. Hecht, 154 West Randolph St., will build four-story brick hotel at 827 Wilson Ave. Estimated cost, $150,000.

Ill., Dixon—Bids will be received until Oct. 18 by Board of Administration, Capitol Bldg., Springfield, for four new buildings for State Colony of Epileptics. James B. Dibelka, 130 North Fifth Ave., Chicago, Arch.

Ill., Rockford—Board of Supervisors of Winnebago County will build addition to courthouse. Estimated cost, $200,000.

Wis., Menominee—Bids being received by State Industrial Board of Education for economics building for Stout Institute. Estimated cost, $200,000. H. E. Miles, Racine, Pres. of Bd.

Wis., Milwaukee—Board of Directors of Wisconsin Telephone Co., 183 Fifth St., Milwaukee, appropriated $175,000 for construction of buildings and repairs for Milwaukee and $145,000 for Wisconsin outside of Milwaukee. H. O. Seymour, Gen. Mgr.

Wis., Platteville—Van Ryan & De Gelleke, Milwaukee, prepared plans for 2½-story science building for State Board of Normal Regents. Estimated cost, $100,000.

Iowa, Monmouth—Bids being received for city hall from plans of Temple & Burrows, Monmouth. Estimated cost, $50,000.

Iowa, Ottumwa—Plans being prepared by Proudfoot, Bird & Rawson, Des Moines, for six-story hotel for Ottumwa Hotel Association. Estimated cost, $300,000. Noted Sept. 23.

Iowa, Sioux City—Chicago & Northwestern Ry. Co. will build freight shed and terminal on Third St. near Jackson St. Estimated cost, $180,000.

Iowa, Spencer—Bids will be received, according to press reports, until Oct. 18 by Lyon County for courthouse.

Kan., Hays—(Official)—Bids will be received about Jan. 1 by State Board of Administration for three-story building at Ft. Hays Normal School. Estimated cost, $100,000. Charles H. Chandler, State Arch. Noted Aug. 19.

Kan., Topeka—Citizens of Shawnee County contemplate settlement building. O. K. Swayze, County Clk. Estimated cost, $50,000.

Mo., Kansas City—H. A. Drake, Reliance Bldg., preparing plans for motion-picture theater at 12th St. and Grand Ave. Frank L. Newman, 4008 Trost Ave., is interested. Estimated cost, $75,000.

Mo., Sarcoxie—Citizens of Jasper County voted $100,000 bonds for county tuberculosis sanitorium.

Tex., Austin—James E. Ferguson, Governor has appointed Atlee B. Ayers, San Antonio, State Architect. He will prepare plans for State School for Blind and for State Land Office, also State Confederate Women's Home.

Bids In and Contracts Awarded

Mass., Cambridge—Contract awarded to STONE & WEBSTER ENGINEERING CO., Milk St., Boston, for two dormitories for Massachusetts Institute of Technology.

Mass., Chelsea—Contract awarded to C. S. CUNNINGHAM & SONS CO., 101 Tremont St., at $80,000, for school. Noted Sept. 23.

Mass., Deerfield—Contract awarded to ALLEN BROS., Amherst, Mass., for library for Deerfield.

Mass., Medford—Contract awarded to MARR BROS. & STEWART CO., 319 Washington St., at about $75,000, for store at Forest and High St., for F. W. Morris, 582 Massachusetts Ave., Cambridge. Noted Aug. 5.

Mass., Wellesley—Contract awarded to J. W. BISHOP CO., Worcester, at about $200,000, for dormitory for Wellesley College. Noted Sept. 16.

R. I., Providence—(Official)—Contract awarded to FAMIGLIETTI BROS CO., Dean St. and Broadway, Providence, at $38,865, for police station at Wayland Ave. and Sessions St. Noted Sept. 30.

Conn., Bridgeport—Contract awarded to W. J. SHAUGHNESSY, Derby, at $46,500 for high school.

N. Y., Hicksville—(Official)—Contract awarded to WINES & HOMAS, Mattituck, for bank building for Bank of Hicksville. Noted Sept. 23.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to A. L. MORDECAI & SON, 30 East 42d St., at $70,000, for six-story, 28x100-ft. showroom and office building at Park Ave. and 57th St., for H. B. Anderson, 15 Broad St.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to FOUNTAIN & CHOATE, 110 East 23d St., at $100,000, for alterations to building at 18th St. and Broadway for Arnold Constable Co., 881 Broadway. Cady & Gregory, Arch.

N. Y., Pearl River—(Official)—Contract awarded to J. B. SCHULTZ, Suffern, N. Y., at $40,000, for laboratory for Lederle Anti-toxin Laboratory. William E. Austin, 46 West 24th St., New York, Arch.

N. J., Elizabeth—John Laurie, Jr., at $82,854, was low bidder for Winfield Scott school and John M. Vose, at $41,442 was low bidder for El Mora school. Noted Sept. 16.

Penn., Dormont—Contract awarded to I. N. DUSHANE & SONS, Carnegie, for Masonic Hall. Noted Aug. 12.

Penn., Philadelphia—Contract awarded to CRAMP & CO., Philadelphia, at about $500,000, for ten-story building at Ninth and Sansom St. Frederick Webber, Philadelphia, Arch.

Penn., Philadelphia—Contract awarded to DOYLE & CO., 1519 Samson St., at $125,000 for three-story and basement, 57x118-ft., school at 416 Queen St. for E. W. Bok.

W. Va., Bluefield—Contract awarded to JOHN F. BARBER & SONS at about $45,000, for school on Rockridge St.

Ga., Chatsworth—Contract awarded to H. J. CARR & CO. for courthouse. Alexander Blair, Macon, Arch.

Ohio, Cincinnati—Contract awarded to FERRO CONCRETE CO., at $452,519, for East High School at Erie and Madison Ave. by Board of Education. Garber & Woodward, Arch. Noted Oct. 7.

Ohio, Cleveland—Contract awarded to MILES CONSTRUCTION CO., Cleveland, at $50,000, for masonic temple for Glenville Masonic Temple Co.

Ohio, Cleveland—Contract awarded to CROWELL-LUND-OFF-LITTLE CO., 1957 East 51st St., Cleveland, at about $600,000, for 13-story commercial and office building on Euclid Ave. for Union National Bank.

Ohio, Cleveland—Contract awarded to UHL-JASTER CO., 1900 Euclid Ave., Cleveland, at about $80,000, for two-story theater and commercial building at Detroit Ave. and Hird St. for Schmitt Realty Co. Noted Aug. 26.

Ohio, Toledo—Contract awarded to H. J. SPIEKER CO., Toledo, at $47,000, for three-story, 25x140-ft. store and loft building for Parks Bldg. Edward Thal, Ohio Bldg., Arch.

Wis., Neenah—Contract awarded to C. R. MEYER & SON, Oshkosh, for hotel and store for Merchants' & Manufacturers' Hotel Co. Estimated cost, $75,000. Noted Sept. 30.

Iowa, Charter Oak—Contract awarded to FRANK LEE, Carroll, for school. Noted Aug. 26.

Minn., Winona—Contract awarded to SEIDLITZ & WERNER, Winona, at $86,820, for high school by Board of Education.

Neb., Lincoln—Contract awarded to SELDEN-BRECK CONSTRUCTION CO., Omaha, at $121,969, for botany and zoology buildings and equipment for University of Nebraska. Noted Sept. 16.

Neb., Seward—Contract awarded to HENRY OHLSON & SON CO., David City, $43,988, for school.

Mo., Kansas City—Contract awarded to ARTHUR PERRY, 1701 Elmwood Ave., at $60,000, for two-story brick church at 12th St. and Bales Ave. for Bales Avenue Baptist Church. Noted Aug. 19.

Mo., St. Louis—All bids for Benton High School gymnasium rejected. Frank & Gordon, Donnelly Court Bldg., revising plans.

Mo., St. Louis—Contract awarded to MURCH BROS. CONSTRUCTION CO., at about $500,000, for theater for Orpheum Theater Circuit at Ninth and St. Charles St. Noted July 29.

CATALOG NOTICES

The Minwax Co., 18 E. 41st St., New York. Bulletin No. 1. Sub-Level Waterproofing. Illustrated, 12 pp., 8½x11 in.

The A. Lietz Co., 632-34 Commercial St., San Francisco, Calif. Manual of Modern Surveying Instruments and Catalog and Price List of Scientific Instruments. Twelfth Edition. Illustrated, 302 pp., 6x9 in.

Trussed Concrete Steel Co., Youngstown, Ohio. Bulletin No. D212. Kahn building products for railroad structures. Illustrated, 8½x11 in.

Walter A. Zelnicker Supply Co., St. Louis, Mo. Bulletin No. 180. Second-hand equipment.

Yawman & Erbe Mfg. Co., Rochester, N. Y. Pamphlet. Vertical file for blue prints. Illustrated, 16 pp., 5x7½ in.

Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill. Catalog No. 110. Catalog in Spanish. Air compressors, rock drills, etc. Illustrated, 68 pp., 6x9 in.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

North Carolina—Bonds voted by Chapel Hill and Bingham townships, Orange County, to aid Alamance, Durham & Orange Ry. & Electric Co. to build line from Ossippee to Durham. Junius Harden, Burlington, Pres.

North Carolina—Piedmont & Northern Ry. Co. plans extension of line from Gastonia to Belmont. E. Thomason, Charlotte, Vice-Pres. and Gen. Mgr.

Alabama—Florence & Huntsville Interurban Ry. Co. is having surveys made for line from Florence to Elk River, about 27 miles. T. H. Allen, Florence, Secy.

Mississippi—Gulfport & Mississippi Coast Traction Co. will rebuild its line, recently damaged by hurricane, between Biloxi and Pass Christian, about 30 miles. W. F. Gorenflo, Mgr.

Mississippi—Hattiesburg Traction Co. plans extension of line to Mississippi Woman's College, Hattiesburg. H. F. Wheeler, Gen. Mgr.

Ohio—East Linden Electric Ry. Co. has asked City Council, Columbus, for franchise for construction of two lines.

Indiana—Ft. Wayne, Secatur & Southern R.R. Co. plans extending its Ft. Wayne & Springfield Ry. line.

Indiana—Goshen, Fort Wayne & Northern Interurban Ry. Co. plans line through Albion. Clarence E. Tasher, Goshen, is interested.

Michigan—Bond issue of $3,300,000 has been ordered by Michigan R.R. Commission for construction of line from Detroit to Owosso by Detroit, Pontiac & Owosso Ry. Co. Oliver H. Lau, Detroit, is interested. Noted July 29.

Illinois—Jacksonville Ry. & Light Co. will relay its tracks on South Main St. from Norton Ave. to Michigan Ave., Jacksonville. H. J. Vance, Peoria, Pur. Agt.

Illinois—Illinois Terminal R.R. Co. plans extension of line from Edwardsville to East Carondelet. H. H. Ferguson, Alton, Gen. Mgr.

Minnesota—Great Northern Ry. Co. plans extension of line from Milaca to Hill City along west side of Mille Lacs lake. A. H. Hogeland, St. Paul, Ch. Engr.

Minnesota—Electric Short Line Ry. Co. plans 25 miles of additional track.

Minnesota—Great Northern Ry. Co. contemplates cut-off of line from Hutchinson, Minn., to Redwood Falls, Wabasso, Tracey, Currie, Slayton and Hardwick to Garretson, S. D. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Kansas—Saline-Northern R.R. Co. contemplates extension of its line from Osborne. E. A. Tennis, Salina, is interested.

South Dakota—South Dakota & Western Ry. Co., recently incorporated with $1,000,000 capital, by W. L. Bruce, W. E. Heaton and J. J. Dorr, will build line from Mitchell to Brule, via Platte.

South Dakota—See item under "Minnesota."

Missouri—Wabash R.R. is having surveys made for line from Orrick to Missouri City. R. H. Howard, St. Louis, Ch. Engr.

Arkansas—Arkansas, Louisiana & Gulf R.R. Co. contemplates railway between Pine Bluff and Monticello. Crossett Lumber Co. is interested. O. F. Cole, Crossett, Ch. Engr.

Arkansas—Gould Southwestern Ry. Co. plans extension of line to Rison or Fordyce, then north to Pine Bluff. W. H. Roberts, Gould, Gen. Mgr.

Texas—Dallas Southwestern Traction Co. is having survey made for line from Glen Rose to Stephenville. E. P. Turner, Gaston Bldg., Dallas, Pres.

Texas—Houston, Richmond & Western Traction Co. will soon begin construction of line between Houston and San Antonio.

Oklahoma—Clinton & Oklahoma Western Ry. Co. contemplates extension of line from Strong City to Guymon, Okla. and Canadian, Tex., about 150 miles. Guy V. McClure, Clinton, Ch. Engr.

Oklahoma—Sapulpa & Oil Field R.R. Co. plans line from Depew to Drumright, via Cushing oil fields. Bridges will be constructed. C. F. Hopkins, Salpulpa, Okla., Gen. Mgr.

Colorado—Arkansas Valley Ry., Light & Power Co., Pueblo, will construct line from Pueblo to state line in Arkansas Valley. W. F. Raber, Pueblo, Vice-Pres. and Gen. Mgr.

Colorado—Denver & Rio Grande R.R. is making surveys for line from Alamosa to Durango. J. C. Gwyn, Denver, Ch. Engr.

Idaho—Spokane & Inland Empire R.R., has been granted franchise by City Council, for single-track steam and electric railway in Cœur d'Alene. A. M. Lupfer, Portland, Ore., Ch. Engr.

Utah—Ogden, Logan & Idaho Ry. plans improvements and extensions to line. Estimated cost, $200,000. P. D. Kline, Ogden, Gen. Mgr.

Washington—C. D. Hillman, Seattle, is back of a movement to build line from Olympia to Boston Harbor, about six miles.

Oregon—Oregon, California & Eastern Ry. Co. recently incorporated, will build 400 miles of standard gage line in central Oregon. Robert C. Sterahorn, Portland, interested.

Oregon—City Council, Medford, has allowed Southern Oregon Traction Co. to abandon its Siskiyou Heights extension and construct line on Hillcrest Rd. touching Highcroft, Laurelhurst and Queen Anne additions. C. G. Bullis, Medford, Gen. Mgr.

Oregon—Portland & West Coast R.R. & Navigation Co. has been offered bonus by citizens of Newport of $100,000 to build first ten miles of line from Newport to Portland.

California—Surveys are being made by Engels Copper Co., Taylorsville, for narrow gage railway from its mine to connect with Western Pacific Ry. near Keddie.

California—Council of Los Angeles granted franchise to Pacific Electric Ry. Co. to construct single-track line on portions of Figueroa St., Denver Ave., Hoover St., Menlo Ave. and Vermont Ave. Noted Sept. 9.

Calif.—San Jose R.R. Co. granted franchise for electric railway in San Jose.

New Brunswick—St. John & Quebec Ry. has been taken over by Provincial Government and will complete line between Gagetown and Centerville. F. P. Gutelius, Moncton, Gen. Mgr.

Manitoba—Brandon Municipal Ry. Co. will soon commence construction of line on College Ave. and 18th St., Brandon.

Bids in and Contracts Awarded

West Virginia—Chesapeake & Ohio Ry. Co. awarded contract to J. C. CARPENTER & MAJOR BROS., for double-tracking between Greenlee and Balcony Falls. B. T. Jellison, Richmond, Va., Pur. Agt.

Michigan—Contract awarded to SMITH-BYERSAPARKS CO., by White Pine Mining Co., Ontonagon for two miles of spur track from its mine to St. Paul R.R.

Minnesota—Northern Pacific Ry. Co. awarded contract to F. A. BAXTER, Superior, Wis., for spur track to Hillcrest mine near Ironton. F. G. Prest, St. Paul, Pur. Agt.

California—Pacific Electric Ry. awarded contract to ROBERT SHERER & CO., Pacific Electric Bldg., Los Angeles, for grading roadbed for line between Hawthorne and Ionia Ave., Los Angeles, on Redondo via Watts line. Estimated cost, $20,000. J. McMillan, Los Angeles, Gen. Mgr.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Syracuse—Syracuse Lighting Co. will construct three reinforced-concrete substations.

Fla., Titusville—Citizens defeated $35,000 bonds for purchase of Titusville Electric Light Co. L. W. Doolittle, Mayor.

Ala., Fairhope—See item under "Water Works."

Miss., Jackson—R. L. Benson, Chicago, Ill., owner of power plant of Capital Light & Power Co., plans expenditure of between $10,000 and $15,000 for improving same.

La., Lake Charles—J. G. Boyle and J. G. Bessler granted franchise to supply city with gas. Plant will be constructed at estimated cost of $100,000.

Tenn., Cumberland Springs—(Tullahoma post office)—Cumberland Springs Co. contemplates electric-light plant. Noted Oct. 14 under Cumberland Springs, Ga.

Ky., Cynthiana—Lexington Utilities Co., Lexington, has taken over plant of Cynthiana Electric-Light Co. and will improved same. Noted Sept. 9.

Ky., Danville—Danville Light & Power Co. plans to extend its service to Lancaster, Ky., about ten miles.

Ky., Louisville—Louisville Gas & Electric Co. will build substation at Bardstown Rd. and Stevens Ave. Estimated cost, $150,000.

Ky., Mayfield—Election will be held Nov. 2 to vote on purchase of Mayfield Electric Light Plant and Water-Works.

Ohio, Cleveland—Tropical Oil & Paint Co. will build power plant at 1244 West 70th St. Estimated cost, $5,000.

Minn., Brownsdale—H. C. Volkman has applied for franchise to install and operate electric-light plant.

Minn., Deer Wood—Cuyuna Range Power Co. plans to enlarge its plant.

Minn., Raymond—Citizens voted to construct light and power station.

Iowa, Fairbank—Election will be held Nov. 1 to vote to build electric-light plant.

Kan., Attica—Contract will soon be awarded for improving electric-light plant and water system. Estimated cost, $30,000. Noted July 29 and Sept. 23.

Kan., Bucklin—(Official)—Election will be held Oct. 28 to vote $10,000 bonds for improving electric-lighting system. Noted Oct. 7.

Kan., Preston—Citizens will vote to construct municipal electric-light plant.

S. D., Volin—Company being organized to install and operate electric-light and power plant.

N. D., Washburn—Franchise granted Washburn Light & Power Co. for electric-light and power plant.

Mont., Glasgow—Citizens voted $18,000 bonds for improvements to electric-light plant. Noted Aug. 12.

Mo., Poplar Bluff—Bids will be received by H. H. Wilcox, City Clk., until 2 p.m., Nov. 3, for municipal electric-light and power plant. (See adv.)

Tex., Brownwood—Texas Power & Light Co., Dallas, will build transmission line from Brownwood to Comanche.

Tex., Bryan—Fountain Bros. applied to City Council for franchise to construct electric-light and power plant.

Tex., Edgewood—J. W. Freeman, Kilgore, contemplates electric-light plant.

Tex., Greenville—Plans being considered for extending municipal street lighting system.

Okla., Muskogee,—Bonds for $350,000 voted for municipal pipe line to convey natural gas to Muskogee.

Okla., Oilton—Oklahoma Natural Gas Co. contemplates pipe line from wells near Cushing to Guthrie via Stillwater.

Okla., Sapulpa—Citizens contemplate pipe line to gas wells. Estimated cost, $20,000.

Colo., Limon—Denver interests have requested franchise from City Council for electric-light plant.

Idaho, Kendrick—Plans being prepared for electric-lighting system. Estimated cost, $8,000.

Idaho, Twin Falls—James McMillan has been granted franchise for gas plant.

Calif., Escondido—Board of City Trustees plans municipal electric-light and power plant and gas manufacturing plant.

Calif., Red Bluff—Northern California Power Co. plans expenditure of $10,000 for enlarging its gas plant.

Ont., Cobalt—Bids will be received by William Carter, Secy., Box 877, Cobalt, until Oct. 25, for heating system in public school at Giroux Lake.

Ont., Petrolia—Council plans to take over electric-light plant, at $11,280.

Ont., Toronto—Toronto Hydro-Electric Commission plans new sub-station at Gerrard St. and Carlew Ave. Estimated cost, $60,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Bronx)—(Official)—Contract for substation for Interboro Rapid Transit Co. awarded to JOHN B. ROBERTS, 1 Madison Ave., New York, N. Y. Estimated cost, $50,000.

Ohio, Cincinnati—Contract for new boilers for Ohio National Guard Armory, Freeman St. awarded to TUDOR BOILER CO., Cincinnati, at $8,980. Noted Sept. 9.

Ohio, Cleveland—Contract for heating system in Division Ave. pumping station awarded to CHAFER CO., Cleveland, at $11,250.

Ohio, Toledo—(Official)—Contract for steam heating and ventilating system for present building of Toledo University and for addition at Illinois and 11th St. awarded to JOHN PISCH CO., Toledo, at $19,790. Noted Oct. 7.

Iowa, Webster City—Contract for electric-light plant awarded to HAWKEYE CONSTRUCTION CO., at $4300.

Neb., Blair—(Official)—Contract for electric-light plant awarded to McGRAW CO., Omaha, at $22,490. Noted Oct. 7.

Ont., Preston—Contract for heating plant at Hurlbut shoe factory awarded to BERNHARDT & SPALDING.

BRIDGES

Proposed Work

Conn., Bridgeport—Grand St. and East Washington Ave. Bridge Commissions have retained J. B. Strauss, Chicago, Ill., to prepare plans and supervise construction of bridges at Grand St. and East Washington Ave. Estimated cost, $220,000 and $130,000 respectively.

Conn., New Hartford—Appropriation of $10,000 made by Town Board for bridge at Satan's Kingdom.

N. Y., Albany—State will build bridge over Rondout Creek between Kingston and Port Ewan to connect State Highway between Albany and New York. Estimated cost, $220,000.

N. Y., Buffalo—Jacob Dold Packing Co. will build car trestle on Howard Ave. Estimated cost, $10,000.

N. Y., Buffalo—Plans being considered by Public Service Commission for Harlem Ave. viaduct. Estimated cost, $400,000.

N. J., Livingston—Bids will be received by Frederick A. Reimer, County Engr., Newark, until 3 p.m., Oct. 25, for bridge on Hobart Gap Rd. over Canoe Brook.

Penn., Mooresburg—Bids being received by Philadelphia & Reading Ry. for concrete bridge on line through Mooresburg.

Md., Towson—Bids will be received by County Commissioners until Oct. 28 for bridge over Dead Run on Franklin Rd.

Va., Lynchburg—(Official)—Bids will soon be received for bridge across James River at Lynchburg. Estimated cost, $250,000. B. H. Davis, 7 Batterly Pl., New York, N. Y., Consult. Engr. Noted Oct. 7.

N. C., Biltmore—City plans bridge across Swannanoa River. Charles E. Waddell, Engr.

N. C., Kinston—Bids will be received by County Commissioners until Nov. 1 for bridge over Neuse River at Caswell St. Estimated cost, $10,000.

Ga., Atlanta—Fulton County and Atlanta contemplate 400-ft. viaduct to connect North Boulevard and Piedmont Park. R. M. Clayton, Ch. Engr.

Ga., Blairsville—Bids will be received by V. I. Butt, Ordinary, Union County, until Oct. 23, for steel bridge across Notla River to be known at Thompson Bridge.

Fla., De Land—See item under "Streets and Roads."

Miss., Columbus—Bids will be received until Nov. 1 by Lowndes County Supervisors for 100-ft. steel or concrete bridge, three wooden bridges and one concrete culvert. C. L. Wood, County Bridge Engr.

Miss., Leakesville—Bids will be received until [illegible] by Greene County Supervisors for steel bridge and iron [illegible] bridge across Chickasawhay River. S. R. McKay, Clk.

La., Estherwood—Police Jury plans bridge across Medlanka River. Estimated cost, $4,000.

Tenn., Chattanooga—(Official)—Southern Ry. postponed construction of bridge over tracks at Oak St. indefinitely. Noted Oct. 7.

Tenn., Elizabethtown—Bids will be received until 1 p.m., Oct. 29, by L. D. Gasteiger, Secy., Rd. Comrs. of Carter County, for constructing a number of bridges.

Tenn., Loudon—Loudon County Commissioners granted franchise to F. C. Ferguss, J. H. Jollick and T. H. Baker for toll bridge across Tennessee River.

Tenn., Maynardville—See item under "Streets and Roads."

Ky., Covington—Bids will be received by J. Mason Hawk, Comr. of Pub. Property, until 10 a.m., Oct. 28, for bridge piers for bridge to carry duplicate supply main of Licking River at a point approximately 150-ft. south of Louisville & Nashville Ry. bridge. Noted Aug. 26. (See adv.)

Ohio, Bridgeport—Bids will be received about Oct. 25 for repairing two bridges. Estimated cost, $20,000. C. C. Hoffher, City Clk.

Ohio, Cincinnati—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., until noon, Oct. 25, for widening existing bridge on Montgomery Rd.

Ohio, Upper Sandusky—Bids will be received until 11:30 a.m., Oct. 28, by J. Marguerat, Audr., Comrs. of Wyandot County, for substructure of bridge over Sandusky River, Tymochtee Township.

Ind., Anderson—Bids will be received until 10 a.m., Oct. 27, by Commissioners of Madison County, for two additional steel spans for bridge across White River on North Main St. J. B. Benefiel, Audr. Noted Sept. 23.

Ind., Wabash—(Official)—Bids will be received by D. Shawalter, Audr., until 1:30 p.m., Nov. 3, for bridge over Wabash River at Wabash. Estimated cost, $40,000. A. W. Grosvenor, Ft. Wayne, Engr.

Mich., Hastings—Bridge will be constructed over Little Thornapple River near county line by Town Boards of Thornapple Township in Barry County and Caledonia Township in Kent County. Estimated cost, $5,000.

Minn., Duluth—City plans to construct two bridges. Estimated cost, $15,000.

Minn., Minneapolis—Bond issue of $85,000 authorized by City Council toward work of concrete arch bridge across Mississippi River at Third Ave., S.

Kan., Hutchinson—Preliminary plans prepared and bids will be received about Jan. 1 for reinforced-concrete bridge over Arkansas River at Hutchinson. Estimated cost, $45,000. W. B. Harris, County Engr. Noted Oct. 14.

Kan., Iola—Plans being prepared by W. S. Gearhart, State Engr., Kansas Agricultural College, Manhattan, for three reinforced-concrete bridges.

Kan., Iola—Bids will be received until noon, Nov. 10, by Commissioners of Allen County, for replacing and repairing McFarlan Bridge.

Kan., Mankato—Bids will be received by County Clerk until noon, Oct. 26, for steel truss bridge with 80-ft. span and 16-ft. roadway.

Kan., Nickerson—Commissioners of Reno County contemplate reinforced-concrete bridge estimated to cost $30,000. P. Peck, Abbeyville, Chn.

Kan., Salina—Commissioners of Salina County plan bridge over Smoky River. W. S. Farier, County Engr.

S. D., Yankton—Election will soon be held to vote $300,000 bonds for railroad bridge across Missouri River.

Mo., Gasconade—Missouri-Pacific Ry. plans expenditure of $60,000 for draw span in bridge over Gasconade River.

Mo., Joplin—(Official)—Bonds for $13,500 sold for North Main St. viaduct. J. J. McAfee, City Engr. Noted Oct. 7.

Mo., Maryville—Election will soon be held in Nodaway County to vote $100,000 bonds for bridges.

Mo., Wellington—See item under "Streets and Roads."

Tex., Harrisburg—Bids will be received by H. L. Washburn, County Audr., until Nov. 1, for bridge over Brays Bayou.

Tex., Palestine—International & Great Northern Ry. Co. and city will build steel viaduct from Spring St. into Reagan Park. O. H. Crittendon, Houston, Ch. Engr. Noted Aug. 5.

Okla., Antlers—Bids will soon be received for five steel bridges in Pushmataha County. Estimated cost, $40,000.

Okla., Chandler—Bids will be received until 10 a.m., Oct. 25, by J. C. Pringley, Clk. of Lincoln County, for four steel bridges across Main Ditch in Deep Fork Drainage District No. 1.

Okla., Guthrie—Plans submitted by J. A. Rankin, Engr., for bridge across Cimarron River near Guthrie. Estimated cost, $18,000.

Ariz., St. Johns—Election will soon be held to vote $75,000 bonds for bridges.

Wash., Seattle—Bids will be received about Nov. 1 for bridge over Lake Washington Canal at 10th Ave. A. Rapp, City Bridge Engr.

Calif., Cloverdale—Town Board plans two bridges, one at First and Main St. and the other at Third St.

Calif., El Centro—Bids will be received until 2 p.m., Nov. 1, by California Highway Commissioners, 515 Forum Bldg., Sacramento, for reinforced-concrete bridge across Myers Creek. C. C. Carleton, Act. Secy.

Calif., Merced—Bids will soon be received by Board of Supervisors of Merced County for reinforced-concrete bridge across Santa Rita Slough, Supervisorial District No. 5. Estimated cost, $6,000.

Calif., San Jose—(Official)—Bids will be received by Board of Supervisors of Santa Clara County, Courthouse, until 11 a.m. Oct. 25, for reinforced concrete bridge on New Ave.

Calif., Sacramento—(Official)—Bids will be received at office of California Highway Commission, 515 Forum Bldg., until 2 p.m., Nov. 1, for reinforced-concrete bridge across Myers Creek, Imperial County.

Bids In and Contracts Awarded

Maine, Brownsville—Contract for concrete bridge across Pleasant River awarded to SANDERS ENGINEERING CO., Portland, at $11,000.

Penn., Lewistown—(Official)—Contract for bridge over Kishacoquilla Creek on Dorset St. tension awarded to R. R. MYERS, Lewistown, at $8,900. Noted Sept. 23.

Penn., Uniontown—(Official)—Contract for bridge over Jacobs Creek at West Overton between Greensburg and Fayette County awarded to HARVEY & WATSON, Mt. Washington, at about $8,000. Noted Sept. 2.

W. Va., Brandywine—Contract awarded to FARRIS BRIDGE CO., Charleston, at $5,600, by Pendleton County Commissioners for concrete bridge.

W. Va., Wheeling—Contract for two concrete bridges awarded to CLATTERTON & BRADY, Sistersville, at $10,000.

S. C., Beaufort—(Official)—Contract for repairs to two piers of Whale Branch Bridge and new bridge between St. Helena and Ladies Islands awarded to CAROLINA CONSTRUCTION CO., Columbia, at $8,952. Noted Sept. 16.

Ohio, Milford—Contract for bridge over East Fork of Little Miami River in Union and Miami Townships awarded to ROCHESTER BRIDGE CO., at $9,289. Noted Sept. 9 and 23.

Ind., Crown Point—(Official)—Contract for pony truss bridge over Hart Ditch, Brown St., Munster, awarded to BARNES & SHEARER, Hobart, at $4,696. Noted Sept. 23.

Ind., Salem—Contract for five concrete bridges awarded to MONTGOMERY-PARKER CO., Hatfield, at $7,000.

Ill., Lake Bluff—Contract for concrete work for bridge on Sheridan Rd. awarded to MODERN ENGINEERING & CONCRETE CO., steel work to KENWOOD BRIDGE CO. Estimated cost, $6,000.

Minn., Kenyon—Contract for two bridges and culverts in Wanamingo Township awarded to KENYON CONCRETE & CONSTRUCTION CO.

Kan., Lawrence—Contract for reinforced-concrete bridge across Kansas River at Lawrence awarded to MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, at $199,910. Noted Aug. 12 and Oct. 14.

Mont., Billings—Contract for steel bridge over Tongue River awarded to SECURITY BRIDGE CO., Minneapolis.

Ark., Arkadelphia—Contract awarded to HOPE BRIDGE CO., Hope, by Clark County Commissioners for two steel bridges, one across Scrouge Creek in Southfork Township and one on Gurdon and Okolona Rd.

Okla., Lehigh—Contract for three bridges in Coal County awarded to WESTERN BRIDGE CO., Sherman, Tex. Estimated cost, $6,000.

Okla., Pawnee—All bids received for Lankard Bridge, in Section No. 20, Township 22 rejected.

Ariz., Florence—Contract for two concrete bridges across Gila River near Winkleman awarded to TOPEKA BRIDGE & IRON CO., Topeka, Kan., at $46,595. Noted Oct. 7.

Calif., Red Bluff—Contract for three concrete bridges on State Highway awarded to ROSS CONSTRUCTION CO., Sacramento at $17,000. Noted July 22 and Aug. 19.

Calif., San Andreas—Contract for concrete bridge near San Andreas awarded to BLUXOME & CO., San Francisco, at $5,000.

Calif., San Bruno—See item under "Sewers."

Calif., San Luis Obispo—Contract for steel bridge over Paso Robles Creek awarded to GUTLEBEN BROS., New Call Bldg., San Francisco, at $11,733.

WATER WORKS

Proposed Work

Vt., Burlington—Water system will be extended. Estimated cost, $25,000.

Mass., Fall River—Commission on Water Supply reported in favor of system costing $3,000,000.

Mass., Lynn—Bids will soon be received for pumping station at Ipswich River.

Conn., Hartford—(Official)—Bids will be received until 3 p.m., Nov. 1, by Board of Water Commissioners for work under Contracts Nos. 14 and 15 for clearing Neapug reservoir basin. Caleb Mills Saville, Ch. Engr. (See adv.)

N. Y., Hudson—Bonds for $10,000 voted for water mains.

N. Y., New York—(Borough of Manhattan)—Bids will be received by W. Williams, Comr. of Water Supply, Gas and Electricity, until Oct. 22, for furnishing c.-i. pipe, special and valve box castings, cast steel castings and valves.

N. Y., Yorktown—Bids will soon be received by I. G. Harris, Supt. Monhansic State Hospital, for water system and sewage-disposal plant. Estimated cost, $300,000.

N. J., Jersey City—Bids will be received until 11 a.m., Oct. 28, by Board of Commissioners for specials, hydrants, connection plugs, caps, sleeves, etc. Michael I. Fagen, City Clk.

N. J., Waterloo—(Official)—Citizens do not contemplate dam at outlet of Junius Pond. Jacob Brooks, Clk. Noted Oct. 7.

Md., Hagerstown—Washington County Water Co. has increased its capital stock to provide $150,000 for improving water system and $400,000 for building reservoir.

N. C., Durham—City plans water system. G. C. White, Member Bd. of Aldermen.

S. C., Columbia—Citizens voted $500,000 bonds for extending water and sewer systems. Noted Sept. 23.

Ala., Fairhope—Town plans to take over water system and install electric-light plant. Estimated cost, $12,000.

Ala., Florence—Election will be held in November to vote on $200,000 bonds for purchase and improvement of water system.

La., Covington—Election will be held to vote on bonds for water and sewer systems. A. Kramer, Magnolia, Miss., Engr.

La., Oakdale—Bids will be received about Nov. 1 for water system. R. E. Ricketts, City Secy. Estimated cost, $30,000. Noted Oct. 14.

Ky., Mayfield—Election will be held Nov. 2 to vote on purchase of Mayfield Water Works.

Ohio, Cleveland—Election will be held Nov. 2 to vote on $2,000,000 bonds for preventing pollution of Cuyahoga River and Lake Erie.

Ohio, Cleveland Heights—(Warrensville post office)—See item under "Sewers."

Ohio, Dayton—Bids will be received by J. E. Barlow, Dir. of Pub. Ser., until Oct. 28, for one 20,000,000-gal. low service, steam driven pumping unit at Keowee St. pumping station.

Ohio, Tiffin—(Official)—Tiffin Water-Works Co. will build concrete dam by day labor. Noted Oct. 7.

Ind., Brookville—Bonds for $20,525 sold for water works.

Ind., Wakarusa—State Public Service Commission granted permission to Wakarusa Water Co. to issue $20,000 bonds for water system.

Mich., Menominee—Election will be held Nov. 1 to vote on $285,000 bonds for either purchase of property of Menominee Water Co. or for construction of municipal system.

Mich., Saginaw—Election will be held Dec. 2 to vote on $750,000 bonds for water system.

Ill., Aurora—Construction of new reservoir contemplated by Board of Public Works.

Ill., Rankin—Election will be held Oct. 30 to vote on $6,000 bonds for water system.

Ill., Springfield—Improvements to water-works and fire department recommended by National Board of Underwriters. Estimated cost, $200,000.

Ill., Wheaton—(Official)—Board of Local Improvements received estimates for improvements to water system from L. G. Ruddock, City Engr. Estimated cost, $34,620. Noted Sept. 2.

Wis., Kenosha—Bids being received for pumping plant and filtration plant for Board of Public Works. B. C. Brennan, City Hall, Clk. Estimated cost, $100,000.

Wis., Two Rivers—Bids will be received until 7:30 p.m., Oct. 23, by Water and Light Commission for 6-in. water main in Monroe Ave., Jackson St., and 4-in. main in 24th St. Joseph Doleysh, Secy.

Minn., St. Cloud—Water mains will be laid by city by day labor. C. H. West, City Engr. Noted Sept. 16.

Minn., Thief River Falls—Citizens defeated $38,000 bonds for purchase of municipal water system.

Kan., Manhattan—Bonds for $69,500 for water system voted by citizens. Bids being received by F. Walters, City Engr. Noted Sept. 30.

Kan., Morrill—Bonds for $10,000 voted by citizens for water system.

Neb., Bayard—Bids will be received until Nov. 15 by City Clerk for water system. Estimated cost, $12,500. Selzer & Finley, Scotts Bluff Engr. Noted Sept. 23.

S. D., Humboldt—Bonds for $10,000 for water system sold.

N. D., Ellendale—Election will be held Oct. 30 to vote on $9,000 bonds for water system. John King, City Audr.

Mont., Broadview—City will build water system. M. Soronson, Chn. of Comrs.

Mont., Glendive—Election will be held in spring to vote on $70,000 bonds for rebuilding water system.

Mo., Odessa—Black & Veatch, 507 Interstate Bldg., Kansas City, making surveys for water system and sewer system.

Tex., El Paso—City plans about ten additional wells near pumping station.

Colo., Durango—City Council will build concrete dam at lower reservoir. A. F. Hood, City Mgr.

Colo., Loveland—Improvement of water system contemplated by City Council.

Colo., Westcliffe—Election will soon be held to vote bonds for water system.

Idaho, Star—McCullah & Swearinger, Engrs., submitted report on water system.

Idaho, Ucon—Citizens voted $5,000 bonds for water system. O. W. Steele, Chn. Water Comm.

Wash., Seattle—Council contemplates expenditure of $75,000 for standpipe in West Seattle.

Ore., Culver—See item under "Canals, Ditches and Irrigation."

Ore., Eastside—Election will be held in December to vote on $50,000 bonds for municipal water system.

Calif., Santa Cruz—Election will soon be held to vote on $100,750 bonds for water system.

Ont., Markham—Bids will soon be received by E. A. James, 57 Adelaide St., Toronto, for water system. Estimated cost, $25,000. Noted Sept. 30.

Man., Winnipeg—(Official)—Bids will be received until noon, Oct. 25, by S. H. Reynolds, Chn. of Coms., Greater Winnipeg Water District, 901 Boyd Bldg., Winnipeg, for portland cement. Estimated number of barrels, 200,000. (See adv.)

Sask., Watrous—Citizens contemplate water system. Estimated cost, $50,000.

B. C., Port Coquitlan—Towns plans to install municipal water system. Estimated cost, $35,000.

N. S., St. Andrews—City will build pumping station. Estimated cost, $35,000.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Bids were received Oct. 11 for laying 15,000 ft. of water mains as follows: John Guarino, 45 Brook Ave., Roxbury, $10,308; Thomas Burke, 7 Shirley St., Roxbury, $10,905 and John T. Shea, Jr., Boston, $11,495.

Mass., Salem—Bay State Dredging Co., 247 Atlantic Ave., Boston, at $13,800 was low bidder for intake and gate house at Wenham Lake.

Penn., Tamaqua—Bids were received Oct. 5 for reservoir in Owl Creek as follows: Di Menna & DePaola, Inc., New York, N. Y., $71,437; M. A. Magan, Pottsville, $93,392; and Lovejoy & Wilson, Philadelphia, $104,368. Noted Aug. 12.

La., Gretna—Contract awarded to J. R. SUTHERLIN & CO., Kansas City, Mo., at $46,830, for water system. Noted Sept. 30.

Ohio, Cleveland—Contract awarded to GEORGE H. WORTHINGTON CO., at about $20,000, for water meters for Water Department.

Ohio, Cleveland—Contract for repairing pumps at Division pumping station awarded to ALLIS-CHALMERS CO., Minneapolis, Minn., at $35,000.

Ohio, Liverpool—Contracts for water system awarded as follows: Distributing and force main to J. I. DICK, Scottdale, Penn., at $94,472; excavating and reinforced-concrete work for river intake, pumping station and filtration plant to T. A. GILLESPIE CO., New York, N. Y., at $100,403. Chester & Fleming, Pittsburgh, Penn., Engr.

Ohio, Wilberforce—Contracts for improving water system awarded as follows: 80,000-gal. steel tank and tower to PITTSBURGH-DES MOINES STEEL CO., Pittsburgh, Penn., at $3,536; two steam pumps to WINEMAN PUMP MFG. CO., Columbus; hot water storage heater and softening plant to SHARTLE MACHINE CO., Columbus; well and connections to S. H. BOND. Estimated cost of work, $8,472. Noted Sept. 16.

Wis., Kenosha—Contract awarded to GRELING BROS., Green Bay, at $78,875, for lake intake and crib on Washington Island.

Iowa, Marcus—(Official)—Contracts awarded to DES MOINES BRIDGE & IRON CO., at $4,000, for 75,000-gal. tank on tower; FAIRBANKS, MORSE & CO., at $3,440, for 60 hp. oil engine, compressor, and centrifugal pump and to WARD & WEIGHTON, at $2,593 for pump house. Noted Sept. 30.

Iowa, Sidney—Contracts awarded by Water Works Board for improvements to water system as follows: ALAMO ENGINEERING CO., Omaha, Neb., $9,621 for water mains; AMERICAN CAST IRON PIPE CO., Kansas City, Mo., $8,122, for c.-i. pipe and to MERKLE-HINES MACHINERY CO., Kansas City, Mo., at $539 for hydrants. Noted Sept. 30.

Minn., Campbell—Contract awarded to WARD & WEIGHTON, Sioux City, Iowa., for water mains. Noted Sept. 23.

Minn., Minneapolis—(Official)—Contract awarded to NEW JERSEY PIPE CORPORATION, 50 Church St., New York, N. Y., for riveted steel pipe. N. E. Alexander, Pur. Agt. Noted Sept. 30.

Kan., Attica—(Official)—Contract awarded to BICKEL CONSTRUCTION CO., Kansas City, Mo., at $29,800, for water and electric-light systems. Noted Oct. 7.

Kan., Pleasanton—Contract awarded to F. D. MARTIN, Rialto Bldg., Kansas City, Mo., at $4,000, for water system.

Kan., Russell—Contract awarded to DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa, for laying water mains and to U. S. CAST IRON PIPE CO., Kansas City, Mo., at $34.15 per ton for c.-i. pipe. Noted Oct. 14.

S. D., Yankton—Contracts awarded to McLAIN & ELLERMAN, Yankton, at $5,577, for water mains and hydrants and to CHICAGO BRIDGE & IRON CO., at $3,400, for water tower and tank.

Wash., Seattle—Del Guzzo & Co., at $4,800, was low bidder for water mains in 50th Ave., N. E..

Calif., San Francisco—A. J. REEDER, at $31,675, awarded contract for clearing floor at Hetch Hetchy Valley.

Ont., Dundas—(Official)—Contract awarded to DICKSON BUILDING CO., Dundas, at about $7,000, for dam for water system. John L. Fry, Clk. Noted Oct. 7.

Ont., Ottawa—Contract awarded to LAURIN & LEITCH, Montreal, Que., at $194,000, by City Council, for pipe line. R. L. Haycock, Engr.-in-Charge. Noted Oct. 7.

B. C., West Vancouver—Contract awarded to COTTON CO. LTD., Vancouver, at about $90,000, for water system for Sisters Creek.

SEWERS

Proposed Work

Mass., New Bedford—(Official)—City will construct intercepting sewers by day labor. About $65,000 available for this work. Noted Oct. 7.

N. Y., Greenwich—(Official)—Citizens voted to issue $7,500 bonds for sewer pipe on Elman Ave., Main and Bridge St. Noted Sept. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Nov. 4, for tunnel relief sewer in West 46th St. from Hudson River to Seventh Ave.

N. Y., Syracuse—City Council plans new sewers in eastern section, W. T. Wooley, City Engr. Estimated cost, $285,000.

N. Y., Yonkers—Bids will soon be received for sewers in Prescott St., Paulding St., Fillmore St., Hyatt Ave., [illegible] Ave. and Sherman Ave.

N. Y., Yorktown—See item under "Water-Works."

N. Y., Yorktown Heights—Bids will be received by William B. Osgood, Pres., Bd. of Managers, New York State Training School for Boys, Dept. of Architecture, Room 1220 Woolworth Bldg., New York, N. Y., until 2:30 p.m., Nov. 9, for sewerage and sewage disposal plant. Noted Sept. 30. (See adv.)

N. J., South Orange—Plans prepared by Edmond R. Halsey, Engr., for storm sewers in Maplewood section. Estimated cost, $61,400.

Penn., Ashley—Bids being received by Borough Clerk, for storm sewer in Maxwell and Wyoming St., according to press reports.

Penn., Ingram—(Pittsburgh post office)—Bonds for $14,000 sold for sewer work.

Del., Newport—Election will be held in January, according to press reports, to vote on bonds for sewer system. S. W. Day, Secy.

Md., Rockville—(Official)—Bids will soon be received for sewers and sewage disposal plant for portions of Montgomery County in Little Falls Brook drainage area. E. B. Whitman, Consult. Engr. Noted Sept. 16.

Md., Silver Spring—Harry Stevens, Union Trust Bldg., Washington, D. C., preparing plans for sewer system. Estimated cost, $40,000. Noted Aug. 19.

W. Va., Kenova—Election will be held Nov. 6 to vote $55,000 bonds for sewer system.

S. C., Columbia—Bonds for $300,000 voted by citizens Oct. 5 for extending sewer system. Noted Sept. 16.

Fla., Eustis—Bonds for $60,000 voted by citizens for sewer system. Noted Aug. 16.

Fla., Tampa—(Official)—Bids will be received until 2 p.m., Oct. 26, by Allen Thomas, Clk., Bd. of Comrs. of Pub. Wks., for purchase of $75,000 bonds for sewers and internal improvements.

La., New Orleans—Bids will be received until noon, Dec. 2 by Sewerage and Water Board for labor-material-percentage contract.

Ky., Owensboro—Election will probably be held Nov. 2 to vote on $250,000 bonds for sewer system.

Ohio, Alliance—Bids will be received until Nov. 1 by James I. Rickard, Dir. of Pub. Service, for sewage-disposal plant. Chester & Fleming, Pittsburgh, Penn., Engr. Estimated cost, $40,000.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Nov. 17, for sale of $38,426 bonds for sewers in Cedar Road District No. 3.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Oct. 25 for sewers and water mains in various streets. F. A. Pease Engineering Co., Cleveland, Engr.

Ohio, Springfield—Bids will be received until noon, Nov. 1, by City Auditor, for purchase of $6,271 bonds for sewers. Noted Sept. 16.

Ohio, Youngstown—City plans sewer in Mill Creek Sewer District. Frank Lillie, Engr.

Mich., Hancock—City Council plans new sewer system for West Hancock.

Mich., Menominee—Council plans storm sewers.

Ill., Bloomington—Normal and Bloomington contemplate joint sewage-disposal plant.

Ill., East St. Louis—City Council will make repairs to sewers. Estimated cost, $37,000.

Ill., Jacksonville—Board of Local Improvements will build sewer in Independence Ave. and Hooker St.

Ill., Lemont—Board of Local Improvements plans sewers.

Ill., Rock Island—Bids will be received about Nov. 15 for sewer system and sewage-disposal plant and septic tank. Wallace Trichler, City Engr.

Wis., Fond du Lac—Plans being prepared by City Engineer for sewers in Washington, Morris, Ruggles, West Cotton and East St.

Wis., Manitowoc—Plans being prepared for sewer in Franklin and Sixth St. John Kelley, City Clk.

Wis., Milwaukee—City Council will build sewer in Richards St. Estimated cost, $8,000.

Wis., Stoughton—Bids will be received until Oct. 27 for sewers in various streets.

Iowa, Sioux City—City Council plans extension of storm water sewer in Lafayette St. to Missouri River.

Kan., Belleville—Citizens contemplate sewer system. Estimated cost, $40,000. W. L. Wineland, Mayor.

Kan., Cherryvale—Black & Veatch, Interstate Bldg., Kansas City, Mo., preparing plans for sewer system. Estimated cost, $20,000.

Kan., Hutchinson—Bids will soon be received for sanitary sewer for Hyde Park addition.

Neb., Haverlock—Bids will be received by A. J. Blount, City Engr., until 8 p.m., Nov. 5, for sewers in three districts.

Neb., Loup City—(Official)—Election will be held Nov. 9 to vote $6,500 bonds for sewer system. T. W. D. Wolfe, City Engr. Noted Oct. 7.

Tex., Lancaster—Bonds for $15,000 voted by citizens for sanitary and storm sewers. Noted Sept. 16.

Tex., Sherman—City contemplates sewer system and sewage-disposal plant. Charles Sayville, Dallas, Engr.

Colo., Edgewater — (Official) — Contract for sewer system will be awarded about Oct. 28. Estimated cost, $32,000. Noted Sept. 23.

Colo., Glenwood Springs—City plan sewers in Minturn and Lincoln Ave.

Idaho, Kellogg—City plans sewer work in Pressley addition. Estimated cost, $7,000.

Ore., Amity—City contemplates sewer system.

Calif., Fresno—A. Cronkite, City Engr., authorized to prepare plans for storm and sanitary sewers. Estimated cost, $15,000.

Calif., Los Angeles—Sewers will be constructed in 35th Pl., Van Ness Ave., Cimarron St. and 35th St.

Calif., Richmond—City Council plans sewer work. Estimated cost, $87,400. H. D. Chapman, City Engr.

Calif., Sacramento—City commission plans sewers in Freeport Rd., from Burnside to El Dorado Ave.

Ont., Hamilton—City plans to extend sewer system. Estimated cost, $35,000. A. F. Macallum, Engr.

Ont., Peterborough—City plans to construct sewers on Ribinson, Victoria and Aylmer St. R. H. Pearsons, Engr.

SEWERS

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contract for Section 1, Deer Island Outfall sewer awarded to GEORGE M. BUYNE, 166 Devonshire St., Boston, at $43,370. Frederick D. Smith, City Engr. Noted Sept. 30.

R. I., Providence—(Official)—Bids were received Oct. 11 for sewers in various streets as follows: Bayard St., Antonio Aiello, at $522; River Ave., and Yorkshire St., Charles Crankshaw, at $12,729 and $8,477 respectively; Douglas Ave., Antonio Gonelli, at $1,256. Noted Oct. 7.

N. Y., New York—(Borough of the Bronx)—(Official)—Bids were received Oct. 14 for sewers in Starling Ave., Unionport Rd., McGraw Ave., and Pugsley Ave.: (Low bidders) Briggs & McLaughlin, $5,000; Salvatore Purificato, $5,000; Anita Construction Co., $5,000 and Williamsbridge Construction Co., $5,000.

N. Y., Utica—Contract awarded to A. W. FITCH at $3,358 for storm water sewers.

N. J., Atlantic City—(Official)—Contract for storm water drainage system awarded to JOSEPH FERRY & SONS, INC., Baltimore, Md., at $125,921. Noted Sept. 23.

Penn., Nanticoke—Contract awarded to D. M. ROSSER, for 6-in. brick sewer.

Tenn., North Chattanooga—Contracts awarded to O'SULLIVAN, LONG & HAGERTY, Bessemer, Ala., at $34,000, for 11 miles of 8- to 12-in. sewers and to GUILD & CO., James Bldg., Chattanooga, at $5,665, for 700 ft. of 5- to 9-in. brick sewer. Noted Oct. 7.

Ohio, Cincinnati—(Official)—All bids received for Duck Creek Intercepting sewer rejected. Noted Sept. 16.

Ohio, Martins Ferry — Contract awarded to ARCHER & SHANNAFELDT, Bellaire, for sewer in Elm St.

Ill., Galesburg—Contract awarded to D. E. KEELER CO., Davenport, Iowa, at $3,728, for sewers.

Wis., Appleton—(Official)—Contract for sewers in Richmond St. awarded to J. DELLMONN & CO., Appleton, at 77c. per ft. Noted Oct. 7.

Wis., Green Bay—Contract awarded to B. WAERZEGGERS, Green Bay, at $0.63 per ft. for 12-in. sewers in Oakland Ave. Noted Sept. 30.

Wis., Milwaukee—Contract awarded to ALEX PESTKA, for 12-in. sewer in Menlo Ave. Theodore B. Olson, Clk.

Wis., Racine—Contract for sewers in Carlisle Ave. awarded to PATRICK GAVAHAN, Racine, at $1.40 for 18-in., $1.28 for 15-in. and $1.10 for 12-in.

Iowa, Brooklyn—Contract awarded to PUBLIC SERVICE CONSTRUCTION CO., Omaha, Neb., at $22,194 and $10,274, for sewer system and disposal plant. Noted Aug. 12.

Iowa, Des Moines—Contract awarded to J. L. HAUSMAN, for extension of Ingersoll Run sewer and storm water sewer.

Iowa, Webster City—Contract for Cedar St. sewer awarded to HAWKEYE CONSTRUCTION CO., at $4,300.

Minn., Herman—(Official)—Contract for sewer awarded to BADGER CONSTRUCTION CO., Fargo, N. D., at $4,635. Noted Sept. 23.

Kan., Marysville—Contract awarded to INTER-MOUNTAIN BRIDGE & CONSTRUCTION CO., Tecumseh, Neb., at $8,157, for sewer work.

Neb., Bridgeport — Contract awarded to C. J. BURKE, Kearney, for 8,000 ft. of sewer. Noted Oct. 7.

Neb., Lincoln—Abel & Roberts, First National Bank Bldg., Lincoln, at $35,240, was low bidder for Antelope conduit for city.

S. D., Aberdeen—(Official)—Contract for sewers in Second St. awarded to A. A. DOBSON & CO., Aberdeen. Noted Sept. 30.

Ark., Lake Village—Contract for sewer system awarded to MCCREARY CONSTRUCTION CO., at $18,000.

Idaho, Mountain Home—Contract for sewer construction awarded to IDAHO HARDWARE & PLUMBING CO., Boise, and JOHN W. MORTON, Mountain Home. Estimated cost, $15,360. R. J. Newell, Engr.

Ariz., Mesa—(Official)—Contract for sewer system including 16 miles of sewers awarded to DOYLE BROS., Phœnix, at $51,778. Noted Sept. 30.

Wash., Seattle—(Official)—Contract for overflow sewer in First Ave., N. W., awarded to McDONALD & JONES, 410 Globe Bldg., Seattle, at $15,548. Noted Sept. 30.

Wash., Seattle—Del Guzzo & Co., at $6,200, low bidder for sewers in 50th Ave., N. E.

Ore., Forest Grove—W. C. Elliott, Portland, at $58,448, low bidder for sanitary sewer system. Noted Sept. 9.

Calif., San Bruno—Contract for storm sewers and bridges awarded to CHARLES J. LINDGREN, Monadnock Bldg., San Francisco, at $15,600.

Calif., Stockton—Contracts awarded to TIBBITTS PACIFIC CO., 16 California St., San Francisco, at $14,330 for storm water sewer in east end of city and to D. BISHOP, Stockton, at $16,419, for sanitary sewers in South and Edison St. Noted Oct. 14.

Calif., Visalia—Contract for sewer system awarded to M. MURPHY, Berkeley, at $40,500. Noted Sept. 30.

GARBAGE

Proposed Work

Del., Wilmington—New bids will be received by Board of Health for disposal of garbage for period of years.

Ohio, Akron—(Official)—Bids will be received until noon, Oct. 27, by Board of Control for removal of garbage to Akron garbage disposal plant on Cuyahoga St. C. P. Parker, Dir. of Pub. Serv.

Ind., Ft. Wayne—Board of Works retained Samuel A. Greenley, Milwaukee, Wis., to prepare plans for garbage incinerator. Noted Aug. 5.

Iowa, Mason City—Plans being prepared by E. J. Gones, Macon, Ga., for disposal plant. Estimated cost, $8,000.

Minn., Duluth—Council plans $50,000 bonds for garbage incinerator.

STREETS AND ROADS

Proposed Work

Mass., Woburn—Bids will be received by State Highway Commission, Boston, until Oct. 26 for 5,200 lin.ft. of road.

N. Y., Franklinville—Citizens voted $9,000 for paving Park Sq.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Oct. 28, for regulating and paving and repaving various streets and avenues of the borough.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Oct. 26, for constructing cement sidewalks on Nelson Ave. from Amboy Rd. to a point about 1962 ft. east of east house line of Southfield Blvd. and Richmond Turnpike from Jewett Ave. to Little Clove Rd.

N. J., Atlantic City—County Board of Freeholders plans to pave Meadow Blvd. from Chelsea to Pleasantville. Estimated cost, $125,000.

N. J., Hackensack—Bids will be received by A. N. Morris and C. N. Cumberland, Comr. of Bd. of Chosen Freeholders of Bergen County, Courthouse, until noon, Oct. 29, for improving Passaic St. from Main St. to Maywood Borough line.

N. J., Newton—Bids will soon be received for paving Newton-Sparta and Ross's Corner-Sussex Rd. Estimated cost, $125,000. Harvey Snook, Engr.

N. J., Redbank—Bids will be received by Board of Chosen Freeholders of Monmouth County, Courthouse, Freehold, until 11 a.m., Oct. 27, for concrete road bed and sidewalks on Throckmorton's Fill.

Penn., Bridgeville—(Official)—Election will be held Nov. 2 to vote $15,000 bonds for paving. Noted Oct. 7.

Md., Denton—Bids will be received by County Commissioners until Nov. 1 for one mile of State Aid Highway upon or along Hillsboro-Denton Rd.

W. Va., Moundsville—Bids will be received until Oct. 23 by O. B. Bonar, City Clk., for paving Seventh St. from Lafayette to Western Ave. and Western Ave. from Seventh St. north.

N. C., Charlotte—Board of Aldermen appropriated $14,000 for paving streets.

N. C., Danbury—Election will be held Nov. 16 in Stokes County to vote $50,000 bonds for roads.

N. C., Durham—City contemplates voting $300,000 bonds for improving streets.

N. C., Greenville—County Commissioners will sell $100,000 road bonds Nov. 1.

Ga., Americus—Commissioners of Sumter County contemplate holding election to vote $100,000 bonds for road improvements.

Fla., Clearwater—Election will be held Nov. 16 in Pinellas County to vote $715,000 bonds for roads. Noted Sept. 9 and Oct. 7.

Fla., De Land—(Official)—Citizens voted to issue $250,000 bonds for roads and bridges. Noted Sept. 9.

Fla., Eustis—Citizens voted $40,000 bonds for roads. Noted Aug. 26.

Fla., Ft. Pierce—Commissioners of St. Lucie County will expend $58,675 for hard surfaced roads.

Fla., Jacksonville—Citizens voted $16,000 bonds for paving.

Fla., Monticello—Citizens of Jefferson County voted $100,000 bonds for Dixie highway.

Fla., Wauchula—City will construct 13 miles of sidewalks.

Ala., Mobile—Wilcox County plans expenditure of $15,000 for roads.

Miss., Canton—Board of Supervisors will issue $135,000 bonds for roads in Beat No. 1.

Miss., Columbus—(Official)—All bids received for 48 miles of highway improvement rejected. New bids will be received until 8 a.m., Nov. 8. G. Hauser, Jr., Engr. Noted Sept. 23.

Miss., Gulfport—Board of Supervisors of Harrison County will issue $200,000 bonds for road.

La., Monroe—Bids will be received until Nov. 5 by D. W. Faulk, City Secy., for improving various streets.

Tenn., Dover—Stewart County Commissioners will pave 140 miles of roads. Estimated cost, $200,000.

Tenn., Elizabethton—Bids will be received until 1 p.m., Oct. 29, by L. D. Gaspeiger, Secy. Rd. Comrs., for 70 miles of graded roads and repairing and completing roads already graded.

Tenn., Maynardville—Bids will be received until Nov. 8 by George N. Taylor, Union County Comr., for macadam roads and bridges.

Tenn., Sweetwater—Bids will be received until Nov. 15 by W. T. Lenoir, Mayor, for street improvements. Noted Sept. 9 and Oct. 7.

Ky., Bellevue—(Newport post office)—City contemplates bond issue for paving various streets.

Ky., Stanton—Powell County plans $25,000 bond issue for road.

Ohio, Canton—Plans will be prepared by W. E. Sarver, City Engr., for widening and repaving Tuscarawas St.

Ohio, Cheviot—(Cincinnati post office)—Bids will be received by Albert J. Deusing, Village Clk., until noon, Nov. 3, for improving North Bend Rd. from Woodbine Ave. to north line of Hirschberg & Kaplans Subdivision.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Oct. 15, for improving Coleridge, Corydon, Cottage Grove, Essex and Winton St. Estimated cost, $84,000.

Ohio, East Cleveland—Commissioners of Cuyahoga County plan to pave Euclid Ave.

Mich., Ann Arbor—City Council will prepare plans for paving Miller Ave. Manly Osgood, City Engr.

Mich., Belding—City plans paving Bridge St. with concrete.

Mich., Calumet—An appropriation of $4000 voted by the Eagle Harbor Township Board for highway work for coming year.

Mich., Dowagine—Plans being considered for improving highway on Prairie Ronde St.

Mich., Hillsdale—Expenditure of $35,000 planned for paving Manning St.

Mich., Iron Mountain—County contemplates $75,000 annual road budget.

Ill., Hamilton—City Council will macadamize Ninth St. from Broadway to Keokuk St.

Wis., Elkhorn—City contemplates paving Walworth and Wisconsin St. A. C. Oleson, City Clk.

Wis., Green Bay—Bids will be received until 10 a.m., Oct. 25, by City Clerk for crushed stone on North Roosevelt St.

Wis., Superior—City Commissioners authorized $33,000 bond issue for street improvements.

Kan., Columbus—(Official)—Bids will be received until noon, Nov. 1, by Commissioners of Cherokee County, for grading and surfacing with gravel seven miles of county road between Columbus and Crestline.

Neb., Hastings—Bids will be received about Dec. 1 for paving 50 blocks with vertical fiber brick or asphaltic concrete. W. H. Fuller, City Engr.

Mo., Butler—Citizens plan to issue bonds to macadamize Butler-Nevada Rd.

Mo., Hillsboro—Election will be held Nov. 6 in Jefferson County to vote $500,000 bonds for roads and bridges. Noted Oct. 7.

Mo., Lexington—Lafayette County Commissioners will issue $55,000 bonds for roads in Wellington-Napoleon Rd. District.

Mo., Marshall—Citizens contemplate bond issue of between $800,000 and $1,000,000 for road construction. James C. Wonders, Washington, D. C., Highway Engr.

Mo., Sedalia—Bids will be received by F. T. Leaming, City Engr., until Nov. 1 for 9,200 sq.yd. of vertical fiber brick paving.

Mo., Springfield—All bids received for nine miles of road in Ingram Special Road District rejected. New bids will be received. Estimated cost, $20,000.

Mo., Wellington—Citizens voted $55,000 bonds for macadamizing 10 miles of road and for two bridges. Noted Sept. 30.

Tex., Batesville—Election will be held Nov. 2 in Zavalla County, Road Precinct No. 3 to vote $40,000 for roads. Noted Oct. 7.

Tex., Beaumont—Bonds for $85,000 sold for street improvements. Noted Sept. 9.

Tex., Fredericksburg—Citizens of Gillespie County Nov. 7 vote on $300,000 for roads.

Idaho, Orfino—City will expend $11,000 for paving and sidewalks. Robert Swadener, Engr.

Wash., Colville—Bids will be received by A. B. Sansborn, Audr., Comrs. of Stevens County, until Nov. 1, for improving about three miles of Springdale-Hunters Permanent Highway No. 2-A.

Wash., Pomeroy—Bids will be received until 10 a.m., Nov. 1, by Commissioners of Garfield County, for improving a portion of Permanent Highway No. 1.

Wash., Stevenson—(Official)—Bids will be received until 1:30 p.m., Oct. 23, by Charles H. Nello, County Audr., for constructing nine miles of Stevenson-Carson Rd. Noted Sept. 23.

Ore., Florence—Citizens voted $5,000 bonds for plank road from Florence to North Fork bridge.

Calif., Alameda—City Council appropriated $50,000 for streets improvements.

Calif., Hayward—City Council plans to macadamize several streets.

Calif., Oroville—Bids will soon be received for paving Montgomery St. from Lincoln St. to Fourth Ave. Estimated cost, $15,843. S. J. Norris, City Engr.

Calif., Richmond—City Council has authorized streets under tracks of Santa Fé R.R. at 16th St. Estimated cost, $7,000. H. D. Chapman, City Engr.

Calif., Sacramento—Plans prepared by Frank C. Miller, City Engr., approved by City Commissioners for paving Cypress Ave. from 37th St. to Upper Stockton Rd.

Calif., San Jose—Bids will be received until 11 a.m., Oct. 25, by Board of Supervisors of Santa Clara County, for improving Lincoln Ave. in Supervisorial District No. 4.

Ont., London—City plans to pave Wellington and Clarence St. with asphalt. H. A. Brazier, Engr.

Ont., Mimico—Movement being agitated to widen Lake Shore Rd. 85 ft. throughout length of municipality.

Man., Winnipeg—City will construct granolithic walks on Woodrow Pl., Manitoba, Sargent and Langside Ave. W. P. Brereton, City Engr.

B. C., Victoria—City Council plans concrete sidewalks on both sides of Prior St. between Hillside and Summit Ave. C. H. Rust, City Engr.

B. C., Victoria—City Council authorized sidewalks on Clawthorpe Ave. and Shakespeare St.

N. S., Halifax—F. W. W. Doane, City Engr., submitted report to Board of Control estimating cost of extending Morris St. at $5,500.

Bids In and Contracts Awarded

Conn., Darien—Contract for constructing Rings End Rd. and Norton Ave. awarded to WILKES-CASEY ENGINEERING & CONTRACTING CO., New Rochelle, N. Y., at $26,130.

N. Y., Albany—(Official)—Bids were received Oct. 15 at office of Superintendent of Public Works for highway north of West Shore R.R. at Port Gibson, Town of Palmyra, Wayne County, as follows: WILLIAM R. KINNEY, 25 South Pearl St., Albany, $3,568 (awarded contract); Fischett Bros., Clyde, $3,955; S. M. Ludingtons' Sons, Inc., Rochester, $3,991.

N. Y., New York—(Borough of Bronx)—(Official)—Lowest bids received for improving (a) Powell Ave. from Tremont Ave. to Zerega Ave., (b) Walker Ave. and former Main St. to easterly terminus of land acquired for West Farms Rd. to Eastern Blvd., (c) Rosedale Ave. from Walker to Tremont Ave., (d) Kingsbridge Terrace from Kingsbridge Rd. to filled grade south of West 299th St. were as follows: (a) Burnside Contracting Co., $12,105; (b) Anabel Construction Co., $76,333; (c) and (d) Municipal Asphalt Co., at $5,124 and $4,323 respectively.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received for regulating and repaving (a) 51st St. from West Side First Ave. to East Side Third Ave., (b) 52d St. from Fifth to Sixth Ave., (c) 151st St. from Amsterdam Ave. to Broadway, (d) Lexington Ave. from 21st to 23d St., (e) Columbus Ave., (f) 25th St. from Broadway to Sixth Ave., 32d St. from Fifth Ave. to Broadway and from Sixth to Seventh Ave. and Sixth Ave. from 23d to 32d St., were as follows: (b) and (d) Aztec Asphalt Co., Inc., 90 West St., New York, N. Y., at $7,702 and $8,003 respectively; (a), (c), (e) and (f), Barber Asphalt Paving Co., Woolworth Bldg., New York, at $10,727, $6,508, $11,450 and $60,501 respectively.

N. Y., New York—(Borough of Manhattan)—(Official)—W. J. Fitzgerald, 547 West 45th St., New York, N. Y., at $5,412, submitted lowest bid for regulating and repaving 18th St. from Broadway to Fourth Ave.

N. Y., Rochester—(Official)—Contract for paving Elmwood Ave. awarded to JULIUS FRIEDRICH CO., INC., Rochester, at $8,680. Noted Oct. 7.

N. J., Freehold—Contract for Tennent Gordon's Corner Rd. awarded to W. H. FLITCROFT, at $6,016. Noted Sept. 30.

N. J., Hoboken—(Official)—Contract for improving portions of First, Third and Harrison St. awarded to LESTER FELLOWS CO., Jersey City, at $4,953. Noted Sept. 30.

N. J., Irvington—(Official)—Contract for paving Lyon Ave. awarded to NORTHERN CONSTRUCTION CO., 665 Broad St., Newark, at $62,070. Noted Sept. 23.

N. J., Jersey City—Nolan & Horning Construction Co., West Hoboken, submitted lowest bid for improving Passaic Ave. and Paterson Plank Rd. Noted July 29 and Sept. 23.

N. J., Madison—Contract for paving Waverly Pl. with asphalt block awarded to GLENFIELD CONSTRUCTION CO., Newark, at $2.14 per sq.yd. for paving and 38c. per sq.yd. for excavation.

N. J., Montclair—(Official)—All bids rejected for paving Upper Mountain Ave. from Bloomfield Ave. to Jerome Pl. Noted Oct. 7.

N. J., New Brunswick—Contract for paving South-Amboy Keyport Rd. awarded to T. H. RIDDLE, New Brunswick, at $45,349. Noted Sept. 9 and 30.

Penn., Mt. Union—Contract for 13,000 sq.yd. vitrified brick pavement awarded to CURWENSVILLE CONSTRUCTION CO., Curwensville.

N. C., Kinston—Contract awarded to WEST CONSTRUCTION CO., Chattanooga, to pave 50½ blocks with Bermudez Lake sheet asphalt on concrete base. Estimated cost, $140,000 to $160,000.

Fla., Arcadia—Contract for road construction awarded to EDWARDS CONSTRUCTION CO., Tampa, at $85,000.

Ala., Camden—Contract awarded to RAWLINGSON CONSTRUCTION CO., Luverne, at $7,635 for five miles of road in eastern section of Wilcox County.

Miss., Jackson—Contract awarded to C. T. TALBOTT to cover and bind two miles of Rankin Pike.

Tenn., Delphi—Contract awarded to CHICKAMAUGA QUARRY & CONSTRUCTION CO., Chattanooga, at $50,000 for Dixie short route through Sequatchie.

Tenn., Memphis—Contract for paving Claybrook St. awarded to GEORGE O. WHITE & CO., at $9,011.

Ky., Bardwell—Carlisle County Commissioners awarded contract to CRESAP BROS., Humboldt, Tenn., at $9,000 for six miles of earth road. Noted Sept. 16.

Ohio, Athens—Mariner, Finsterwald & Gross submitted the only bid for paving Grosvenor St.

Ohio, Canton—Contract awarded to SMITH & KRABILL, by Board of Commissioners of Stark County for paving Gairo-Hartville Rd. in Plain and Lake Townships.

Ohio, Cincinnati—Contract for improving Red Bank Rd. awarded to ARMSTRONG & GIFFORD, at $6,700. Noted Oct. 7.

Ohio, Cleveland—Contract for paving Sykro Rd. and East 32d St. awarded to A. M. PEJSA PAVING CO., at $10,790; East 123d St. to FRESHWATER CONSTRUCTION CO., at $3,924.

Ohio, Cleveland Heights (Warrensville post office)—Contract awarded to CLEVELAND TRINIDAD PAVING CO., Cleveland, for paving Derbyshire and Cedar Rd.

Ohio, Columbus—Monarch Construction Co., 1438 Bryden Rd., at $11,386, low bidder for improving Ryan Ave. from Trapple Pike to Sullivan Ave.

Ohio, Columbus—Contract awarded to KENNEDY-WARNER CO., at $8,409, for improving Cleveland, Wooster Rd. in Parma Township. Noted Sept. 30.

Ohio, New Lexington—Contract awarded to ENGINEERING SERVICE CO., Columbus, at $53,227, by Board of County Commissioners for grading and paving Athens Rd. in Monroe Township.

Ind., Covington—Contract awarded to CHARLES IRVIN, Attica, Ind., at $6,100 for gravel road in Troy Township.

Ind., Franklin—Contract for Adcock Rd. awarded to JOHN W. MURPHY, at $11,000. Noted Sept. 16.

Ind., Gary—Contract awarded to GARY CONSTRUCTION CO., at $4,731 for paving Broadway with asphalt macadam.

Ind., Huntington—(Official)—Contract for sidewalks on Ogan St. awarded to E. BONEBRAKE, Huntington. Noted Sept. 30.

Ind., Indianapolis—Contract for repaving North Capitol Ave. awarded to UNION ASPHALT CONSTRUCTION CO., at $16,005. Noted Sept. 2.

Ind., Noblesville—(Official)—Contract for concrete road in Noblesville Township awarded to A. L. TRIBBLE, Brazil, at $46,866. Noted Sept. 30.

Ind., Shoals—(Official)—Contract for macadam road in Perry Township awarded to GEORGE GREEN, Shoals, at $6,743. Noted Sept. 23.

Ind., Terre Haute—Contract awarded to EDWARD PATTEN, Veedersburg, at $5,225, for paving north side of public square.

Ind., Vincennes—Lowest bids received for paving Second St. from Main to Church St. were Foulkes Construction Co., at $4,471, with brick, Premier Construction Co., at $4,335, with Trinidad Lake asphalt.

Mich., Midland—Contract awarded to S. W. BURTON, for road work.

Ill., St. Charles—Contract awarded to WESTERN IMPROVEMENT CO., Racine, Wis., at $55,891 for paving East and West Main St. and other connecting streets. Noted Sept. 16 and Oct. 14.

Wis., Racine—Birdsall-Griffith Construction Co., $1.95 for brick low bidder for paving 4,491 sq.yd. on Hamilton Ave. Noted Sept. 30.

Iowa, Ft. Dodge—Contract for constructing a number of sidewalks awarded to JOHNSON CEMENT SIDEWALK CO., at $4,000. Noted Oct. 7.

Iowa, Ottumwa—Contract for paving awarded to KEOKUK QUARRY & CONSTRUCTION CO., Keokuk. Estimated cost, $30,000.

Minn., Buffalo—No bids were received for grading Lake Shore Rd. The work will be done by day labor. Noted Sept. 23.

Minn., Duluth—Contract for paving 30th Ave. W. from Superior to Vernon St. awarded to AUGUST A. BODIN & SON, at $9,721.

Mont., Hardin—All bids received Oct. 4 for road between Big Horn River Bridge and Dry Creek rejected. Noted Sept. 30.

Mo., Chillicothe—Contract for paving 31st St. from 9 to Elmdale Rd. awarded to C. A. STEWART, Chillicothe, at $1.56 per sq.yd.

Mo., Kansas City—Contract for 5,574 sq.yd. of 6-in. portland cement concrete paving on South Euclid Ave. awarded to JAMES O'CONNOR & SONS, 8000 East 11th St., at $4,272.

Ark., Lake Village—Contract for paving streets awarded to McCREARY CONSTRUCTION CO. Estimated cost, $16,000.

Colo., Lamar—(Official)—Contract for grading and improving Santa Fé Rd. awarded to FILOON & FORD and HENRY MARSOR, at $4,200. Noted Sept. 30.

Ariz., Phœnix—Contract for paving Madison St. with bitulithic awarded to CALIFORNIA-ARIZONA CO., at $2.10 sq.yd.

Wash., Prosser—Contract for Permanent Highway No. 5 awarded to A. H. ZANE & CO., North Yakima, at $19,230. J. T. Wright, County Engr.

Wash., Seattle—Contract for improving east and west Green Lake Way awarded to R. G. STEVENSON, 1327 Ewing St., Seattle, at $103,303. Noted Oct. 14.

Calif., Arcadia—Bids were received for approximately 16 miles of oiled macadam roadway and 10,000 ft. of concrete curb and gutter as follows: E. A. Baker, $122,998; Rogers Bros. Co., $130,787; Andrew Holloway, $131,628. Noted Sept. 30.

Calif., Bakersfield—Worswick Street Paving Co., Modesto, at $31,460, submitted lowest bid for concrete pavement on Division 1p, Section 5, Weed Catch Loop. Noted Sept. 30.

Calif., East San Diego—M. D. GOODBODY CONSTRUCTION CO., San Diego, at $39,600, awarded contract for grading and improving Hugo Ave.

Calif., Hermosa Beach—Contract for improving a number of streets awarded to CALIFORNIA-ARIZONA CONSTRUCTION CO., at $18,578.

Calif., Oakland—Contract for paving 25th Ave. from East 14th St. south awarded to HUTCHINSON CO.

Calif., Ontario—(Official)—Contract for paving awarded to FORD & STOUT, 336 Bradbury Bldg., Los Angeles, at $57,088. Noted Sept. 23 and Oct. 14.

Calif., Richmond—Contract awarded to GEORGE W. CUSHING, at $4,833 for paving 21st St. and Anita Ave.

Calif., San Bruno—Contract for constructing sidewalks awarded to CHARLES J. LINDGREN, San Francisco, at $29,959.

Calif., Sanger—Contract for three miles of macadam road awarded to M. HAYNES, Oakland, at $23,801.

Calif., San Francisco—Contract awarded to FLYNN & TREACY, at $17,557 for improving Rhode Island St. from 22nd to 23rd St.

Calif., San Rafael—Contract for graveling Olema Rd. from Lagunitas to Tocaloma awarded to S. P. BROWNLEE, at $4,606.

Ont., Essex—Contract for constructing concrete sidewalks awarded to JOHN WORTLEY.

Ont., Windsor—Contract for concrete pavement and curbs on Cataraqui St. awarded to CALDWELL SAND & GRAVEL CO., at about $4,500.

INDUSTRIAL WORKS

Proposed Work

Mass., Lowell—Tremont & Suffolk Mills will build 43x140-ft. addition. Estimated cost, $35,000.

Conn., Bristol—Plans completed for rolling mill, 188x300-ft. and wing, 60x300-ft. for Bristol Brass Co. Noted Sept. 9.

Conn., Hartford—Gordon Bros. having plans prepared for three-story and basement, 50x140-ft. brick cold-storage building. F. C. Waly, Arch.

Conn., New Haven—National Folding Box & Paper Co. has plans for 105x345-ft. factory addition. Estimated cost, $100,000.

Conn., Norwich—Shebucket Co. will build two-story brick weave shed, 84x356 ft. Estimated cost, $75,000.

N. Y., Fulton—(Official)—Hunter Arms Co., Inc., advises it does not contemplate additions to its plant. Noted Aug. 19.

N. Y., New York—(Borough of Brooklyn)—Bids being received for four-story, 26x41-ft. brick and steel mill for Chelsea Fiber Mills Co., 1155 Manhattan Ave. William B. Tubby, 81 Fulton St., New York, Arch. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids being received for two-story, 98x109-ft. brick shop and garage on Quincy St. for Edison Electric Illuminating Co., 13 Willoughby St. C. L. Knight, Engr. Estimated cost, $40,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—Koch & Wahner, 26 Court St., Brooklyn, preparing plans for two- or four-story, 65x130-ft. brick loft and manufacturing building at Flatbush Ave. extension near Concord St. for F. A. Koch Bldg. Co., Inc. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Gronenberg & Lenchtag, 303 Fifth Ave., preparing plans for storage warehouse on 181st St. near Audubon Ave. for Ruth Holding Co. Building will be six-stories, 75x119-ft. Estimated cost, $90,000.

N. Y., Richfield Springs—Simmons Bros. will build one-story, 75x150-ft., garage. Henry Kehoe, Arch.

N. Y., Rochester—Rochester Rotary Washer Co. 55 Franklin St., having plans prepared for five-story factory and office building to be erected in spring.

N. Y., Saratoga Springs—C. G. Anthony, Consult. Engr., preparing plans for State Reservation Commission, Albany, for bottling works. Estimated cost, $162,000.

N. Y., Tonawanda—Bids being received by G. Morton Wolfe, Buffalo, for one-story, 60x273-ft. factory at Fillmore Ave. and New York Central and Erie R.R. for Plastergon Wall Board Co.

N. Y., Waterport—Growers' Cold Storage Co. will build by day labor three-story and basement, 98x126-ft. cold-storage plant. John G. Ellendt, Cutler Bldg., Rochester, Arch.

N. J., Bloomfield—Eastern Tool & Mfg. Co., 74 Richmond St., Newark, will build factory at Bloomfield Ave. and Grove St.

N. J., Kearney—American Splint Corporation, New York, N. Y., will build four-story factory. Estimated cost, $100,000.

Md., Baltimore—John Freund, Baltimore, preparing plans for three-story, 74x100-ft. garage on High St. for City Baking Co.

La., Homer—Hodge Fence & Lumber Co. will rebuild its mill, recently destroyed by fire. Estimated cost, $60,000.

Ohio, Ashtabula—W. C. Owen, Leader-News Bldg., Cleveland, prepared plans for factory for Cleveland Ford Tire Co.

Ohio, Cleveland—Perfection Spring Co. will build warehouse at 2339 East 67th St. George S. Rider & Co., 512 Century Bldg., Arch. Estimated cost, $50,000.

Ohio, Cleveland—Cleveland Punch and Shear Co. will build one-story addition at 3927 St. Clair Ave. Estimated cost, $10,000.

Ohio, Cleveland—O. C. Barber, Barberton, contemplates grain elevator at Cleveland.

Ohio, Cleveland—Ernest McGeorge, Leader-News Bldg., preparing plans for five-story, 50x250-ft. addition to plant of Peerless Motor Car Co., East 93 and Quincy St.

Ohio, Cleveland—U. S. Gypsum Co., Schofield Bldg., will build two-story, 50x80-ft. warehouse at 1714 Merwin Ave.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Milling Machine Co. will build addition to its plant. Estimated cost, $15,000.

Ohio, Youngstown—Trumbull Steel Co. will spend $1,290,000, according to press reports, for enlarging its tinplate and sheet plant.

Ohio, Youngstown—Youngstown Sheet & Tube Co. plans three additional openhearth furnaces. James A. Campbell, Pres. Estimated cost, $500,000.

Ind., Gary—Work will soon begin on construction of addition to plant of American Sheet & Tin Plate Co.

Ind., Kokomo—Elmer Dunlap Co. preparing plans for factory for Mid-West Boxboard Co., Estimated cost, $50,000.

Mich., Howell—Howell General Electric Motors Co., recently incorporated with $30,000 capital, will build factory. H. M. Spencer, Pres.

Mich., Jackson—Brisco Motor Co. having plans prepared for factory. Estimated cost, $100,000.

Mich., Owosso—American Malleable Co. will build addition. Estimated cost, $60,000.

Ill., Chicago—Peterson Express & Van Co. will build six-story warehouse at 1011 East 55th St. T. J. Reynertson, Arch. Estimated cost, $55,000.

Ill., Chicago—Stewart-Warner Speedometer Corporation plans addition at estimated cost of $30,000.

Ill., Chicago—Diamond Glue Co., 3602 Robinson St., will build addition. Estimated cost, $30,000. Marx & Vigeant, Arch.

Ill., Chicago—Jourdans Sausage Mfg. Co. 814 West 20th St., will build two-story brick factory. Estimated cost, $20,000. J. J. Corner, Arch.

Ill., Chicago—Western Shade Cloth Co. will build one-story factory addition at 2000 South Jefferson St. Estimated cost, $75,000. Postle & Fisher, 140 South Dearborn St., Arch.

Kan., Neodesha—Standard Oil Co. of Kansas will build additional stills. Estimated cost, $200,000.

Mo., Kansas City—Berry-Wood Piano Player Co. will build factory at 17th St. and Troost Ave.

Tex., San Antonio—Dixie Oil & Refining Co. will enlarge its plant. Estimated cost, $40,000.

Okla., Jennings—Bids will be received until Nov. 1 by Brennan & Rooney, Arch., Tulsa, for oil refinery for Mid-Continent Refining Co. Noted Sept. 23.

Wash., Seattle—Metz Motor Co., Waltham, Mass., having plans prepared for five-story, 64x112-ft. concrete factory on East Pike St., Seattle. J. P. Scearce, Local Mgr.

Ore., Oregon City—Willamette Valley Flax Co. will build flax mill. John W. Loder, interested. Estimated cost, $300,000.

Ont., Hamilton—W. T. Rawleigh Co., Freeport, Ill., has purchased two-acre site and will build factory.

Ont., Toronto—Chevrolet Motor Car Co. will build addition to its factory at Perth and Kingsley Ave. Estimated cost, $15,000.

Ont., Toronto—R. G. Long & Co., 439 Wellington St., will build factory at 727 King St. Estimated cost, $80,000.

Bids In and Contracts Awarded

N. H., Manchester—Contract awarded to BUNTON & BERNARD, Manchester, at $20,000, for two-story, 78x100-ft. warehouse for Charles Simpson.

Mass, Chicopee—Paige-Storms Co., owned by New England Westinghouse Co., awarded contract to D. G. CANTY, Chicopee, at $25,000, for two additions to its drop-forge plant.

Mass., Fitchburg—Contract awarded to FISHER-CARTER CONSTRUCTION CO., Holyoke, at about $35,000, for three-55x76-ft. factory for Brown Bag Filling Machine Co.

Mass., Forest Hills—(Boston post office)—Contract awarded to JOSEPH IMHOF, 6 Ashley St., Jamaica Plain, at about $16,000, for one-story, 100x100-ft. garage for J. J. Lannin, Tremont Bldg., Boston.

Mass., Holyoke—Contract awarded to CASPER RANGER CONSTRUCTION CO., Holyoke, at about $35,000, for three-story, 100x130-ft. workshop and storage warehouse for F. A. Champlin and D. F. Moriarty.

Mass., Lynn—Contract awarded to C. S. CUNNINGHAM & SONS CO., 101 Tremont St., Boston, at about $10,000, for factory for Hennessey Maxwell & Hennessey Shoe Co.

Mass., Newton—Contract awarded to CHARLES E. CURRIER CO., 110 Summer St., at $50,000, for ice plant for Purity Ice Co.

Mass., Worcester—Contract awarded to E. J. CROSS CO., 82 Foster St., Worcester, by W. & S. Mfg. Co., for two-story, 40x48-ft. brick factory.

Conn., Bridgeport—Contract awarded to T. J. PARDY CONSTRUCTION CO., Bridgeport, at $175,000, by American Graphophone Co. for five-story addition.

Conn., Groton—Contract awarded to H. R. DOUGLAS INC., New London, for factory for New London Ship and Engine Co.

N. Y., Buffalo—Contract awarded to JOHN W. COOPER CO., Fidelity Bldg., for linseed-oil-crushing mill and storehouse for Archer-Daniels Co. on Buffalo River.

N. Y., Jamestown—Contract awarded to KELLOGG STRUCTURAL STEEL CO., Buffalo, by Jamestown & Chautauqua Traction Co. for car house.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, for two-story, 40x75-ft. factory at East 52d St. and Ditmars Ave., for W. Becker Aniline & Chemical Co.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to STANDARD CONCRETE STEEL CO., 143 East 31st St., for four-story, 43x100-ft. garage at 146 West 100th St., for Eugene Goll, Patchogue, N. Y.

N. J., Camden—Contract awarded to ARMSTRONG-BLATTA CO., by Taylor-White Extracting Co. for three-story addition. Noted Sept. 30.

N. J., Harrison—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., by Hyatt Roller Bearing Co., for 8-story, 75x200-ft. building at Middlesex and Fifth St.

N. J., Newark—Contract awarded to DAVID HENRY BUILDING CO., at about $15,000, for one-story brick building at 264 Vanderpool St. for Beckton Chemical Co.

N. J., Passaic—(Official)—Contract awarded to JOHN W. FERGUSON CO., New York, N. Y., for five-story, 54x280-ft. building for Forstmann & Huffmann Co., Passaic.

Penn., Philadelphia—Contract awarded to GEORGE STEMBACH, 1609 North Park Ave., at $35,000, for one-story garage on Locust St. near 41st St., for Charles F. Sine.

Penn., Philadelphia—Contract awarded to HENRY E. BATON, Philadelphia, at $50,000, for six-story warehouse for W. J. McCahan Sugar Refining Co.

Penn., Philadelphia—Contract awarded to FRANK G. STEWART, 1619 Sanson St., at $45,000, by Felton Sibley Co., Inc., Fourth and Cherry St. for six-story factory. Noted Sept. 2.

Md., Baltimore—Contract awarded to P. J. CUSHEN, Baltimore, by Maryland Steel Co. for 180x428-ft. machine shop.

Ky., Louisville—Contract awarded to L. W. HANCOCK CO., Louisville, for six-story warehouse for Speed Realty Co. Estimated cost, $60,000. Noted Sept. 30.

Ohio, Cleveland—Contract awarded to UHL-JASTERS CO., 1900 Euclid Ave., Cleveland, for two-story, 54x100-ft. and one-story, 50x60-ft. foundry and one-story warehouse at West 38th St. and Nickel Plate R.R. for Cleveland Electro Metal Co. Noted Oct. 14.

Ohio, Cleveland—Contract awarded to COPPERS CO., Pittsburgh, Penn., at about $150,000 for coke oven plant at Clark Ave. and Wheeling & Lake Erie R.R. for River Furnace Co., Perry Payne Bldg.

Ohio, Newburg—(Cleveland post office)—Contract awarded to H. G. STATMYER & SON CONSTRUCTION CO. by American Steel & Wire Co. for addition to its plant. Estimated cost, $750,000. William P. Palmer, Pres.

Ohio, Toledo—Contract awarded to A. BENTLEY & SONS CO. by Willys Overland Co. for factory on Central Ave. Estimated cost, $300,000.

Mich., Grand Rapids—Contract awarded to F. A. HORNER by Clark Veneer Co. for two-story, 113x165-ft. warehouse on Grandville Ave., S. W. Noted Aug. 12.

Wis., Milwaukee—Contract awarded to PAUL RIESEN'S SONS, by A. C. Clas, Arch., Colby-Abbot Bldg., for machine shop and foundry for Milwaukee Die Casting Co.

Wis., Wausau—Contract awarded to HACKBARTH & KRAUSE, by Marathon Shoe Co., at about $12,000, for shoe factory. Noted Sept. 30.

Minn., Minneapolis—Contract awarded to FARNAM BROS. CO., Minneapolis, by Board of Education for three additions to its shops and warehouse at 245 Ninth Ave. Estimated cost, $17,000.

Kan., Stafford—Southwest Grain Co. awarded contract to AUGUST MATTSON, for seven grain elevators.

Mo., Kansas City—Contract awarded to GRAY CONSTRUCTION CO., O'Rear-Leslie Bldg., by Marshall Oil Co. for one-story, 100x113-ft. warehouse at 14th and Campbell St., North Kansas City.

Mo., Kansas City—Contract awarded to LONSDALE BROS., 520 Bryant Bldg., at $11,000, for remodelling warehouse at 16th and Walnut St. for Every Bird Thayer Dry Goods Co., 11th and Walnut St.

Wash., Olympia—Oregon-Washington R.R. & Navigation Co., Portland, Ore., awarded contract to E. J. ROUNDS CONSTRUCTION CO., Walker Bldg., Seattle, for one-story brick depot and one-story, 30x115-ft. brick freight shed. Estimated cost, $25,000.

Ore., Portland—Contract awarded to JAMES P. FORD, at $30,000 for two-story brick and concrete factory for Oregon Motor Co.

FEDERAL GOVERNMENT WORK

Proposed Work

Paving—New Haven, Conn.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Oct. 28, for sidewalks, curbing, etc., at United States post office and courthouse, New Haven.

Roadwork—Ft. Slocum, N. Y.—Bids will be received at office of Quartermaster, U. S. Army, Recruit Depot, Ft. Slocum, until 9:30 a.m., Oct. 28, for concrete sidewalks, curbs and macadam road at Ft. Slocum.

Engine House—Washington, D. C.—Bids will be received by Secretary of Board of Commissioners, Room 509, District Bldg., until 2 p.m., Nov. 8, for Engine House No. 28. (See adv.)

Oil **Storage Tanks**—Washington, D. C.—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, until 10:30 a.m., Nov. 16, for steel oil storage tanks. (See adv.)

Radial Gates—Washington, D. C.—Bids will be received by A. P. Davis, Ch. Engr., United States Reclamation Service, Washington, D. C., until 2 p.m., Nov. 1, for ten hoists for radial gates, New Jackson Lake Dam, Snake River Storage Project, Idaho-Wyoming.

Dredging—Jacksonville, Fla.—Bids will be received at U. S. Engineer Office, Jacksonville, until noon, Nov. 8, for dredging and rock removal at Miami Harbor and St. Lucie Inlet. (See adv.)

Officers' Quarters—Key West, Fla.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 13, for two officers' quarters, naval station, Key West.

Post Office—Brenham, Tex.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 27, for United States post office at Brenham.

Heating System—Ft. Bliss, Tex.—Bids will be received at office Depot Quartermaster, El Paso, until 11 a.m., Nov. 17, for hot water heating systems in 13 officers' quarters at Ft. Bliss. (See adv.)

Post Office—Navasota, Tex.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 26, for United States post office at Navasota.

Canal Work—Grand Junction, Colo.—Bids will be received at office of United States Reclamation Service, Grand Junction, until 2 p.m., Nov. 4, for about 340,000 yd. of canal excavation.

Marine Railway—Pearl Harbor, Hawaii—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for marine railway at naval station, Pearl Harbor.

Miscellaneous Supplies—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Nov. 5, for furnishing miscellaneous supplies.

Bids In and Contracts Awarded

Building—Boston, Mass.—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for U. S. appraisers' stores, Boston, (a) foundation sea wall, etc., (b) construction of superstructure, (c) construction complete, as follows: Norcross Bros. Co., Worcester, Mass., (a) $155,000, (b) $490,700, (c) $635,000; George A. Fuller Co., Boston, (a) $149,980, (b) $513,897, (c) $660,000; Z. W. Dall Co., Cleveland, Ohio, (a) $184,000, (b) $474,868, (c) $649,868. Noted Sept. 2.

Elevator Plant—Boston, Mass.—Bids were received Oct. 8 for elevator plant in U. S. appraisers' stores, Boston, from: Otis Elevator Co., Washington, D. C., at $29,439 and A. B. See Electric Elevator Co., Baltimore, Md., at $37,225. Noted Sept. 23.

Post Office—Naugatuck, Conn.—Bids were received Oct. 13 by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Naugatuck as follows: E. T. Abbott Construction Co., New York, N. Y., $47,900; William H Fissell & Co., New York, N. Y., $50,400; J. S. Rogers, Moorestown, N. J., $50,482.

Riprap—Philadelphia, Penn.—Bids were received Oct. 14 for riprap in Delaware River at Mifflin Bar Dike as follows: Coast & Lakes Contracting Corporation, New York, N. Y., at $1.36 per ton (recommended for acceptance); Peoples Bros. Inc., Philadelphia, at $1.74 per ton; C. R. Simpson, New York, N. Y., at $2.21 per ton. Noted Sept. 23.

Pumping Unit—Washington, D. C.—Bids were received Oct. 11 by Commissioners of District of Columbia for one steam turbine-driven centrifugal pumping unit as follows: De Laval Steam Turbine Co., Trenton, N. J., $12,995, time 115 days, and $15,633, 105 days; Alberger Pump & Condenser Co., New York, N. Y., $17,030; Standard Engineering Co., Washington, D. C., $18,690. Noted Sept. 23.

Sewers—Washington, D. C.—Bids were received Oct. 12 by Commissioners of District of Columbia for Anacostia Intercepting Sewer, (a) ordinary excavation, (b) concrete masonry, (c) vitrified brick masonry, (d) sewer brick masonry, as follows: Whiting-Turner Construction Co., Baltimore, Md., (a) 56c., (b) $8.18, (c) $22, (d) $15; W. F. Brenizer Co., Washington, D. C., (a) $1.25, (b) $7.35, (c) $23, (d) $16; George Hyman, Washington, D. C., (a) $2.50, (b) $6.25, (c) $19, (d) $15.

Dredging—Norfolk, Va.—Contract for dredging and rock excavation on James River awarded to MARYLAND DREDGING & CONTRACTING CO., Baltimore, Md., at $34,590. Noted Sept. 16 and Oct. 7.

Fuel Oil Storage Plants—Norfolk, Va.—Bids were received Oct. 16 for fuel oil storage plants at navy yard, Norfolk, as follows: C. C. Moore & Co., San Francisco, $199,800; Wayne Construction Co., Wayne, Penn., $208,246; Day & Zimmerman, Philadelphia, Penn., $199,696. Noted Aug. 19.

Post Office—Wilkesboro, N. C.—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Wilkesboro as follows: King Lumber Co., Charlottesville, Va., $54,700; J. S. Rogers, Moorestown, N. J., $56,945; Richardson Construction Co., Bainbridge, Ga., $52,600. Noted Sept. 16.

Hangars—Pensacola, Fla.—Bids were received at Bureau of Yards and Docks, Navy Dept., Washington, D. C., for three hangers at U. S. Navy Aëronautic Station, Pensacola, as follows: Penn Bridge Co., Washington, D. C., $34,965; Henry Monk, Pensacola, $41,400; Snare & Triest, New York, N. Y., $41,760. Noted Sept. 30.

Machinery—Cincinnati, Ohio—Contract for furnishing and installing operating machinery at Dam No. 29, Ohio River awarded to J. & J. B. MULHOLLAND CO., Pittsburgh, Penn., at $25,788. Noted Aug. 26 and Oct. 14.

Post Office—Logan, Ohio—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C. for post office at Logan, (a) limestone, (b) sandstone, as follows: Ohio Bridge & Construction Co., Cincinnati, (a) $45,000, (b) $45,000; J. S. Rogers, Moorestown, N. J., (a) $43,150, (b) $44,150; Charles W. Gindele & Co., Chicago, Ill., (a) $44,500, (b) $45,500. Noted Sept. 9.

Remodeling Post Office—Moberly, Mo.—Bids were received Oct. 15 for remodeling post office at Moberly as follows: Algernon Blair, Montgomery, Ala., $32,790; Frank M. Weakley, Portsmouth, Va., $33,443; Dieter & Wenzel Construction Co., Wichita, Kan., $33,406. Noted Sept. 23.

Heating Plants—Ft. Sill, Okla.—Bids were received for steam heating plants at Ft. Sill (a) 19 plants, (b) 13 plants, (c) 6 plants, as follows: Charles T. Taylor, Hampton, Va., (a) $18,821, (b) $13,204, (c) $5,617; Fred B. Hannan, Lawton, (a) $15,675, (b) $11,475, (c) $700; H. H. Lloyd, Lawton, (a) $17,397, (b) $13,095, (c) $6,377.

Fuel Oil Storage Plants—Bremerton, Wash.—Bids were received at Bureau of Yards and Docks, Navy Dept., Washington, D. C., Oct. 16 for fuel oil storage plants at Bremerton as follows: C. C. Moore & Co., San Francisco, Calif., $319,500; Wayne Construction Co., Wayne, Penn., $413,624; John W. Danforth & Co., Buffalo, N. Y., $312,300. Noted Aug. 19.

Barracks—Mare Island, Calif.—Contract for marine barracks at Mare Island Navy Yard awarded to PRINGLE, DUNN & CO., 338 Pine St., San Francisco, at $137,542. Noted Aug. 26 and Sept. 30.

Fuel Oil Storage Plants—Mare Island, Calif.—Bids were received Oct. 16 for fuel oil storage plants at navy yard, Mare Island, as follows: F. P. Walsh, San Francisco, $258,225; C. C. Moore & Co., San Francisco, $295,200; John W. Danforth & Co., Buffalo, N. Y., $308,500. Noted Aug. 19.

Fuel Oil Storage Plants—San Diego, Calif.—Bids were received Oct. 16 for fuel oil storage plants at navy yard and station from: C. C. Moore & Co., San Francisco, $165,780; Wayne Construction Co., Wayne, Penn., $193,740. Noted Aug. 19.

Motor-Driven Capstans—Panama—Bids were received Oct. 11 by General Purchasing Officer, Panama Canal, for 975 motor-driven capstans from American Engineering Co., Philadelphia, Penn., at about $55,000, and Hyde Windlass Co., Bath, Maine, at $57,695.

Piers—Honolulu, H. T.—Lord-Young Co., at $285,000, submitted lowest bid for concrete piers No. 8, 9 and 10.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Canal Terminal—Bids will be received by W. W. Wotherspoon, Supt. of Pub. Wks., until noon, Nov. 9, for completing canal terminal at Albany. Estimated cost, $42,689.

Ga., Savannah—Drainage—(Official)—Citizens voted $400,000 bonds for drainage. Thomas Halligan, City Clk. Noted Oct. 7.

Fla., Lake Worth—Drainage—(Official)—Plans will be completed about Jan 1 for Lake Worth Drainage District, about 130,000 acres. Orrin Randolph, Ch. Engr. Noted Oct. 7.

Miss., Dublin—Drainage—Drainage District organized by Coahoma County Supervisors, Clarksdale, to reclaim about 10,000 acres. E. L. Fontiane, Ch. Engr.

Ohio, Cleveland—Ditch Improvement—Bids will be received by E. G. Krause, Clk., Bd. of Comrs. of Cuyahoga County until Nov. 6 for ditch improvement in Solon Township.

Ind., Lawrenceville—(Sunman post office)—Ditch—Contract will soon be awarded for improving ditch in England Pond.

Wis., Bristol—Drainage—Bids will be received by Town Supervisor until Oct. 28 for drainage system for Bristol Dranage District. W. E. O'Brien, Kenosha, Engr.

Iowa, Council Bluffs—Drainage—Board of Supervisors of Harrison and Pottawattamie Counties preparing plans for widening and deepening Allen Creek and Fish Lake ditch. Estimated cost, $40,000. Noted Oct. 7.

Iowa, Jefferson—Drainage—Bids will be received until Oct. 25, by B. S. McCulley, Audr. of Green County, for excavation and laying drains in Drainage District No. 108.

Iowa, Muscatine—Dams—Plans being prepared for three dams in Drainage Ditch No. 10.

Iowa, Ottumwa—Ditch—Board of Supervisors contemplate drainage ditch in southern part of county.

Minn., Blue Earth—Ditch—Bids will be received until 1 p.m., Oct. 29, by Jesse L. Herring County Audr., for County Ditch No. 32, Faribault County.

Minn., Grand Rapids—Ditch—Surveys for Ditch No. 6 at Blackberry completed by William Passard.

Minn., St. Paul—Ditch—State Drainage Board plans expenditure of $15,000 for improving Sand Hill River ditch in Polk County.

Neb., Minden—Drainage—Citizens voted to build drainage system in Newark, Lowell and Blane Townships.

N. D., Fargo—Ditch—Bids being received for two ditches through a portion of Kenyon and Noble Township to Red River. Estimated cost, $30,000 each. F. Crabbe, Fargo, Engr. Noted Oct. 7.

Mont., Billings—Ditch—Trustee of Big Ditch Co. authorized to make improvements at estimated cost of $7,000.

Mont., Helena—Irrigation—Beaver Head Water Co., recently incorporated, plans to irrigate land in Beaver Head County. W. T. Piggott, interested.

Mo., Butler—Drainage—(Official)—Bates and Cass County Drainage District being formed and will let contract about Dec. 1 for drainage work.

Tex., Austin—Drainage—Bonds for $158,000 voted by citizens of Noeces County Drainage District No. 2 approved.

Tex., Donna—Irrigation—Donna Irrigation District No. 1, Hildalgo County, plans to construct irrigation system at an estimated cost of $215,000. G. B. Meriwether, Pres.

Tex., Edna—Drainage—Attorney General's Department approved $105,000 bonds for Jackson County Drainage District No. 5.

Tex., Van Horn—Irrigation—Van Horn Valley Land & Ry. Co., Van Horn and Minneapolis, Minn., will construct wells for irrigation.

Colo., Pueblo—Irrigation—Turkey Creek Irrigation Co. plans system of ditches on Teller holdings. J. C. Teller, Pueblo, interested. Estimated cost, $50,000.

Colo., Saguache—Drainage—Citizens contemplate drainage system. W. L. Curtis, Comr.

Idaho, Nyssa—Irrigation—Nyssa Arcadia Drainage District plans to reclaim approximately 8,000 acres near Nyssa. G. McGeen, Caldwell, Ch. Engr.

Ore, Culver—Irrigation—Suttles Lake Irrigation District voted to issue bonds for irrigation and water system to include 12,000 acres. Estimated cost, $532,390.

Calif., Colusa—Reclamation—Reclamation Districts 108, 479 and 787 plan levee improvements. J. W. Browning, E. L. Dow and W. P. Dwyer, Comrs. of West Side District. Estimated cost, $580,000.

Calif., Westminster—Drainage—(Official)—Bids will probably be received in December for drainage system to drain 6000 acres. S. H. Finley, Santa Ana, Engr. Estimated cost, $25,000. Noted Oct. 14.

Bids In and Contracts Awarded

Wis., Grand Rapids—Drainage—Contract awarded to C. W. ROOD CONSTRUCTION CO. for draining Northwest Drainage District.

Iowa, Manson—Drain—Contract for cement tile for 13-mile drain awarded to CEMENT PRODUCTS CO., Sac City, at $21,000.

Iowa, Sibley—Ditch—Contract awarded to SIBLEY CEMENT CO., at $5,290, for ditch work in channel of Ocheyedan River.

Minn., Breckenridge—Ditch—(Official)—Contract for Ditch No. 8-A, Wilkin County, awarded to G. E. BROWN, Litchfield, at $1.25 per cu.yd. Noted Sept. 30.

Minn., Breckenridge—Ditch—(Official)—Contract awarded to C. T. GLASSER, Minneapolis, $0.19 per cu.yd. for ditch work, in Ditch No. 4-A, Wilkin County. Noted Sept. 30.

Minn., Montevideo—Ditch—(Official)—Contract awarded to MARSHALL CEMENT & SIDEWALK CO., Marshall, at $8,918, for County Ditch No. 17. Noted Oct. 7.

Mont., Kalispell—Irrigation—Contract awarded to NELSON RICH for Glen Lake Irrigation project on Tobacco Plans.

Ark., Pocahontas—Ditches—Contract awarded to W. S. COLEMAN, Paragould, at $24,052, for Cook slough ditch in Township No. 18. Noted Sept. 23.

Idaho, Twin Falls—Canal Improvements—Contracts for enlarging highline canal and replacing siphons in upper Rock Creek District awarded to IDAHO CONSTRUCTION CO., BOISE. SMITH & GREEN, and MORRISON KNUDSEN CO. Estimated cost, $88,000. Noted Sept. 16.

Calif., Modesto—Canal Work—Contracts for canal work at Modesto Irrigation District awarded as follows: Main canal lining to J. WILSON, Modesto, at $62,962; Dam No. 6 to TIBBETTS-PACIFIC CO., San Francisco, at $9,080; Dam No. 1 to J. MONK, San Francisco, at $34,039; 11 concrete structures to C. HOLMES. Noted Oct. 14.

MISCELLANEOUS

Proposed Work

Elevated Railway—New York, N. Y.—(Borough of Brooklyn)—Contract form and plans for reconstruction of Brighton Beach Elevated line submitted to Public Service Commission of First District by New York Municipal Railway Corporation approved. Estimated cost from $75,000 to $100,000.

Elevated Railway—New York, N. Y.—(Borough of Brooklyn)—Public Service Commission of First District approved contract form submitted by New York Municipal Railway Corporation for steel for additional tracks for Myrtle Ave. elevated railway from Willoughby Ave. to Palmetto St., also for improvements on Lutheran Cemetery line.

Station Finish—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York (Borough of Manhattan), until 12:15 p.m., Oct. 26, for station finish for 11 stations on the Broadway-Fourth Ave. Rapid Transit R.R.

Elevated Railway—New York, N. Y.—(Borough of Queens)—Plans and contract form submitted to Public Service Commission of First District for foundations and structures on Section 3, Jamaica elevated extension, consisting of 2.2 mi. two-track elevated railway along Jamaica Ave. from Walnut St. to Cliffside Ave., approved.

Subway Work—New York, N. Y.—(Borough of Queens)—(Official)—Bids for a storm drain, which were to have been opened Oct. 19, have been postponed by Public Service Commission until Nov. 3.

Grade Crossings—Paterson, N. J.—Plans being considered by Erie R.R. for constructing grade crossings in Paterson. R. C. Falconer, New York, N. Y., Supt. Constr.

Flood Protection—Erie, Penn.—City Council contemplates $1,000,000 bond issue for flood protection in Mill Creek. F. Gannett, Harrisburg, Consult. Engr. Noted Sept. 23.

Seawall—Bay St. Louis, Miss.—All bids received for seawall about 8,000 ft. long along beach at Waveland rejected. New bids will be received. Noted Aug. 26.

Elimination of Grade Crossings—Akron, Ohio—Plans being considered by Pennsylvania R.R., Baltimore & Ohio R.R., Erie R.R. and County Commissioners for eliminating Wooster crossing, east of Akron, Tuscarawas Ave. crossing, Barberton, and Manchester crossing, Kenmore.

Elimination of Grade Crossing—Bratenahl, Ohio—(Cleveland post office)—Bids will be received until noon, Oct. 27, by C. A. Neff, Clk., for sale of $38,918 bonds for eliminating grade crossing on East 105th St.

Retaining Wall—Cincinnati, Ohio—Bids will be received noon, Oct. 25, by Philip Fosdick, Dir. of Pub. Service, for retaining wall on St. Clair Ave.

Steel Tanks—Cincinnati, Ohio—Stegner & Hughes, Cincinnati, prepared plans for four steel tanks for Moore Oil Co., at York and McLean Ave.

Bars and Cable—Cleveland, Ohio—Bids will be received until noon, Oct. 27, by A. R. Callow, Comr. of Purchases and Supplies, Room 511, City Hall, for steel reinforcing bars and lead covered cable for Fire, Light and Water Departments.

Levee—Portsmouth, Ohio—(Official)—Bids will be received about Nov. 2 for levee work at Portsmouth. George S. Willhelm, City Engr. Noted Sept. 23.

Retaining Wall—Springfield, Ohio—City will build retaining wall on East High St.

Steel Pipe Line—Youngstown, Ohio—East Ohio Gas Co. will build pipe line from Youngstown to Canton, about 52 miles.

Elimination of Grade Crossings—Youngstown, Ohio—Erie R.R. and city plan to eliminate grade crossings.

Elimination of Grade Crossing—Indianapolis, Ind.—Pennsylvania R.R. directed by Board of Public Works to elevate tracks from Ray St. to a point 300 ft. south of Harris Ave.

Levee Improvement—Indianapolis, Ind.—Board of Public Works authorized improvement of White River Levee. B. J. T. Jeup, City Engr.

Ore Docks—Two Harbors, Minn.—Duluth & Iron Range R.R. Co. plans ore docks at Two Harbors. Estimated cost, $1,500,000.

Dikes—Peasanton, Kan.—Citizens contemplate dikes on Marais des Cygnes River to reclaim 1300 acres. J. Gearhart, State Engr.

Machinery and Pier—Beaumont, Tex.—Bids will be received until noon, Nov. 1, by Board of Wharf and Dock Commission, City Hall, for 500-ft. pier, shed and freight-handling machinery at Kirby's Point, Beaumont. H. McL. Harding, Consult. Engr.

Wharf—Beaumont, Tex.—Bonds for $100,000 sold for wharf. Noted Sept. 23.

Pipe Line—Brenham, Tex.—Chappell Hill Oil Co. will build pipe line from Brenham to Wofford, 7½ miles. Estimated cost, $25,000. J. B. Heartfield and F. O. Prescott, interested.

Levee—Ennis, Tex.—Plans approved and bids will soon be received for levees on Trinity River, Ellis County Levee District. Estimated cost, $120,000. O. W. Finley, Waxahachie, Engr. Noted Oct. 14.

Pipe Line—Duncan, Okla.—Corsicana Petroleum Co. has received franchise to lay pipe line through Stephens County to oil wells.

Pipe Line—Martinez, Calif.—Shell Oil Co. plans pipe line from wells to refinery, about six miles. Estimated cost, $45,000.

Retaining Walls—Sanger, Calif.—Bids will be received by D. M. Barnwell, Clk., Bd. of Supervisors of Fresno County, Fresno, until 2 p.m., Nov. 1, for four retaining walls near Sanger.

Bids In and Contracts Awarded

Structural Steel—New York, N. Y.—(Borough of Brooklyn)—Lowest bid submitted for furnishing 60,000 tons structural steel for new lines and terminals and reconstructing existing lines and terminals was that of American Bridge Co. as follows: East New York Division, 18,000 tons at $48 per ton; Fulton St. line, 24,000 tons at $42 per ton; Brighton Beach line, 2,100 tons at $42 per ton; Coney Island terminal, 15,000 tons at $45 per ton.

Track Supplies—New York, N. Y.—(Borough of Manhattan)—(Official—Bids were received Oct. 15 by Public Service Commission of First District for track supplies: William Wharton & Co., Jr., $27,965; Pennsylvania Steel Co., 71 Broadway, New York, $23,950 and Ramapo Iron Works, $24,116 for work under Order No. 5 and for ballast for Rapid Transit Ry.; Upper Hudson Stone Co., 26 Cortland St., New York, at 97 cents for class A, 87 cents for class B, total $77,374. Noted Oct. 14.

Pier—Greenville, N. J.—Contract for pier for Pennsylvania R.R. awarded to HENRY STEER, INC., New York, N. Y.

Coaling Dock—Pensacola, Fla.—Contract for coaling dock for Louisville & Nashville R.R. awarded to ROBINSON-SCHAEFER CO., Chicago, Ill. Noted Oct. 4.

Levees—New Orleans, La.—Contract awarded to DON B. HEAN & SON, at 17.23c. per cu.yd. for levee work on lower coast.

Levees—Shreveport, La.—Contracts for levees awarded as follows: Upper Missionary and Thompson levee, approximately 34,000 cu.yd. and 110,000 cu.yd., to NOEL BROS., at 12.48c. and 13.68c. per cu.yd., respectively; West Egypt and Cedar Bluff levee, approximately 55,000 cu.yd. and 40,000 cu.yd., to F. M. HEARNE, at 10.98c. and 11.50c. per cu.yd., respectively; Loggie Lea and Long Point levee, approximately 100,000 cu.yd. and 30,000 cu.yd., to HALL NATTIN, at 15.20c. and 17.40c. per cu.yd., respectively; Campo Bello levee, approximately 55,000 cu.yd., to DOUGLAS & BURT, at 15.90c. per cu.yd. Noted Sept. 16.

Dikes—Kelso, Mich.—Contract awarded to COLLIER & STEVENSON, Portland, Ore., for dikes in Wahkrakum County Diking District No. 1.

Levee—South Bend, Ark.—Contract for levee at South Bend awarded to BROWN & FARLEY, Little Rock, at 13.95c. per cu yd. Noted Sept. 30.

Dike—Cathlamet, Wash.—Montague O'Reilly Co., Portland, Ore., at $98,614, low bidder for 17 miles of dike on Columbia River. G. A. Kyle, Portland, Engr. Noted Sept. 9.

Pier—Redondo Beach, Calif.—Contract awarded to McARTHUR BROS., San Francisco and New York, N. Y., at $108,-800, for reinforced-concrete municipal pier. Noted Aug. 12.

Jetties—Salinas, Calif.—Contract awarded to L. G. HARE, at $19,880, by Board of Supervisors of Monterey County for jetties on Salinas River.

Pier—San Francisco, Calif.—Clinton Construction Co., at $283,000, was low bidder for Pier 29 for Board of State Harbor Commissioners.

Wharf—Esquimalt, B. C.—Contract for wharf and warehouse at Esquimalt awarded to TAYLOR ENGINEERING CO., Vancouver. Estimated cost, $60,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Agawam—Bids will be received Nov. 15 by Hampden County Commissioners for 65x168-ft. brick training school.

Mass., Boston—Back Bay Council K of C has retained Maginnis & Walsh, 100 Boylston St., to prepare plans for three-story, 150x150-ft. clubhouse at Boylston Rd. and Ipswich St., Fenway. Estimated cost, $300,000.

Mass., Holyoke—Bids will soon be received by Board of Public Works for isolation hospital and boiler house. Estimated cost, $40,000.

Mass., Salem—Bids will be received about Oct. 25 for hospital. Haven & Hoyt, 220 Devonshire St., Boston, Arch.

Mass., Taunton—State plans to build armory. Estimated cost, $60,000.

Mass., Westfield—School Board plans to build brick school estimated to cost $60,000. J. M. Dutton, Chn.

Mass., Westfield—Hampden County Commissioners will build county building. Estimated cost, $90,000.

Mass., Woburn—State plans to build armory. Estimated cost, $60,000.

R. I., Providence—(Official)—Bids will be received until 10 a.m., Oct. 28, by Board of Control and Supply for dormitory for State Home and School, 1142 Smith St. William A. Schofield, Chn.

Conn., Bridgeport—Middle Street Realty Co. will build business block on site of Read Carpet Co. building.

Conn., New London—An addition will be built to Griswold Hotel. Estimated cost, $300,000.

Conn., Stratford—Southern New England Telephone Co. will build two-story telephone building.

N. Y., Albany—(Official)—Bids will be received until 3 p.m., Oct. 25, by Trustees of Public Buildings, Executive Chamber, Capitol, for alterations in executive offices of capitol. Noted Sept. 23. (See adv.)

N. Y., Buffalo—(Official)—Bids for church for St. John the Evangelist will not be received until spring. S. F. Heckert, Bessemer Bldg., Pittsburgh, Penn., Arch. Noted Oct. 14.

N. Y., Buffalo—(Official)—We have been advised that Bank of Buffalo is uncertain when it will commence construction of its proposed bank building. E. C. McDougal, Pres. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids being received for four-story, 80x100-ft. brick and steel sales station and service station for Ford Motor Co. at Bedford Ave. and Sterling Pl. Estimated cost, $100,000. Francisco & Jacobus, 200 Fifth Ave., New York, Arch. Noted Sept. 23.

N. Y., New York—(Official)—(Borough of Manhattan)—Bids will be received until 4 p.m., Oct. 22 by State Armory Commission, Franklin W. Ward, Secy., Capitol, Albany, for improvements to State Arsenal, Seventh Ave. and 35th St.

N. Y., Potsdam—(Official)—Plans will probably be ready for bids about Nov. 15 for two-story normal school for New York State Department of Education. Lewis F. Pilcher, Capitol, Albany, State Arch. Noted Oct. 14.

N. J., Paulsboro—Board of Education will build school. Clyde S. Adams, Arch.

N. J., Vineland—(Official)—Bids will be received until Oct. 22 by Board of Managers for dining and service building for State Home for Feeble Minded. Estimated cost, $50,000. George S. Drew, Trenton, State Arch. Noted Oct. 7.

Penn., Philadelphia—(Logan)—(Official)—Bids will be received about Nov. 20 by Neff & Thames, Philadelphia, for Methodist Episcopal Church at 13th and Rockland St. Estimated cost, $40,000. Noted Sept. 30 and Oct. 7.

Penn., Philadelphia—Bids will be received about Jan. 1 by Board of Education for three-story brick school at 55th and Chestnut St. Estimated cost, $200,000.

Penn., York—City will build library. Donation of $500,000 made.

Del., Newark—Day & Klauder, Arch., preparing plans for two-story stone and brick building for Delaware College.

Md., Baltimore—(Official)—Bids will be received about Nov. 15 for four-story 130x147-ft. brick building for John Hopkins University. Carrere & Hastings, 52 Vanderbilt Ave., New York, N. Y., Arch. Estimated cost, $50,000.

W. Va., Murraysville—Wilder & Wight, Arch., Kansas City, Mo., preparing plans for granite bank building for Farmer's Trust Co.

Fla., Miami—N. Victor Frohling, Miami, preparing plans for 175-room hotel. Estimated cost, $300,000.

Tenn., Bristol—City plans $60,000 bond issue for new school.

Ky., Covington—Election will be held in Kenton County to vote $150,000 bonds for high school.

Ky., Dawson Springs—H. G. O'Kain, representing a syndicate of Nashville men, has secured site and plans sanitorium. Estimated cost, $250,000.

Ky., Georgetown—Election will be held Nov. 3 to vote on $90,000 bonds for schools. Noted Oct. 14.

Ky., Hopkinsville—Election will be held in November to vote on $100,000 bonds for schools.

Ohio, Berkeley—Bids will be received by M. C. Deppman, Clk., Bd. of Education, until noon, Nov. 13, for school. Schriber, Beelman, Toledo, Arch.

Ohio, Cincinnati—(Official)—Bids will be received about Dec. 1 for Y. M. C. A. building. Elzner & Anderson, Arch. Noted Oct. 7.

Ohio, Cleveland—S. H. Weis, 1030 Schofield Bldg., prepared plans for three-story commercial and apartment building at 1826 Crawford Rd. for W. J. Bennet. Estimated cost, $45,000.

Ohio, Cleveland—Construction work will soon commence on group of buildings for Masonic Temple at 3515 Euclid Ave. Estimated cost, $500,000. Hubbell & Benes, Arch. Noted Aug. 5.

Ohio, Cleveland—Christian, Schwarzenberg & Gaede, 1900 Euclid Bldg., Cleveland, preparing plans for three-story store and service building at 2248 Euclid Ave. for Studio Realty Co. Estimated cost, $60,000.

Ohio, Cleveland—First Church of Christ has purchased site on Euclid Ave. and will build church. Estimated cost, $100,-000. Noted Sept. 2.

Ohio, Cleveland—Frank D. Skeel, 213 Vickers Bldg., Cleveland, preparing plans for six-story hotel on East 61st St. for G. W. Crile.

Ohio, Cleveland—Jacob Babin, 319 Williamson Bldg., Cleveland, will build a commercial building at Superior Ave. and East 115th St. Estimated cost, $100,000.

Ohio, Cleveland—(Official)—We have been advised J. A. Wigmore Co. will not build coliseum. Noted Oct. 7.

Ohio, Columbus—Citizens will not be asked to vote on $2,-000,000 bond issue for new schools until 1916.

Ohio, Columbus—Bids will be received by C. F. Steeb, Secy., Bd. of Trustees of Ohio State University, until Nov. 15, for hospital and shops for university.

Ohio, Dayton—Dayton Military Academy plans building for vocational school at estimated cost of $150,000. Isaac Warner, 145 Rung St., interested.

Ohio, Lakewood—Election will be held Nov. 2 to vote on $500,000 bonds for school and improvements to schools.

Ohio, Toledo—Toledo Hospital plans to build addition. Estimated cost, $60,000.

Ohio, Wilberforce—(Official)—Bids will be received until noon, Nov. 4, by Board of Trustees, Wilberforce University for recitation building. Frank L. Packard, Columbus, Arch.

Ind., Anderson—Y. M. C. A. plans building. Estimated cost, $250,000.

Ind., Bloomington—Bids will be received until Dec. 1 by Trustees of Indiana University for gymnasium. Estimated cost, $175,000. Noted Aug. 19.

Ind., Brazil—Johnson & Miller, Brazil, retained by city to prepare plans for high school. Estimated cost, $70,000. Noted Aug. 5.

Ind., Evansville—Illinois Central R.R. plans new freight depot. Estimated cost, $50,000. A. S. Baldwin, Chicago, Ill., Ch. Engr.

Ind., Ft. Wayne—Flick Floral Co. will build three-story and basement building at 810 Harrison St. Aaron and Alice M. Shive, interested. Estimated cost, $125,000.

Ind., Indianapolis—Leasehold Realty Co. will build 14-story building at Market and Delaware St. Thomas B. Fulmer, Pres.

Ind., Rockport—County Council will not appropriate $100,-000 for new courthouse. Noted Aug. 19.

Mich., Bay City—Henry B. Smith is president of company which will build hospital. Estimated cost, $50,000.

Mich., Detroit—St. Agnes Catholic Parish will build church and school. Estimated cost $60,000. Charles E. Henigan, Pastor.

Mich., Detroit—Statler Hotel, Detroit, will build addition to hotel on Washington Blvd.

Mich., Detroit—Donaldson & Meier, Detroit, prepared plans for club house at Atkinson and Clairmount St. for Ingleside Club. Estimated cost, $44,000.

Mich., Jackson—Election will be held Oct. 23 to vote on $385,000 bonds for high school.

Mich., Owosso—Woodward Bros., and J. C. Osborn will build hotel at estimated cost of $100,000.

Ill. Aurora—Plans prepared for eight-story hotel at Island Ave. and Main St. for Island Improvement Co. Noted Aug. 19.

Ill., Chicago—James A. Bidderman, 38 South Dearborn St., will build six six-story apartments and one 18-apartment building at Sunnyside Ave. and Hazel St. Estimated cost $225,000.

Ill., Chicago—Marshall & Fox, 38 South Dearborn St., preparing plans for theater for Jones, Linick, Schaefer & Co., 110 South State St. Noted Oct. 7.

Ill., Chicago—Plans prepared by James B. Dibelka, State Arch., and Holabird & Roche, for armory for First Cavalry, Illinois National Guard, near Lake Shore Drive and Chicago Ave. Noted Sept. 23.

Ill., Springfield—W. B. Ittner, St. Louis, prepared plans for high school.

Wis., Madison—State Board of Education approved plans prepared by Arthur Peabody for remodeling university gymnasium.

Wis., Milwaukee—University Club will build clubhouse at Oneida St. and Juneau Pl. Estimated cost, $300,000.

Wis., Milwaukee—School Board will build two schools in 1916, one on Green Bay Ave. and other on Franklin St. Estimated cost, $260,000.

Wis., Milwaukee—St. Mary's Church will build school. Estimated cost, $40,000.

Wis., Platteville—(Official)—Bids will be received in January for 2½-story and basement science building for State Board of Normal Regents. Estimated cost, $100,000. Noted Oct. 14.

Wis., Superior—(Official)—Bids will be received about Jan. 1 for three-story and basement training school for State Board of Normal Regents. Estimated cost, $80,000. Noted Oct. 7.

Wis., Superior—Plans being prepared by Emil Ulrich, Arch., 706 Euclid Bldg., Cleveland, Ohio, for Sacred Heart Cathedral for Diocese of Superior. Estimated cost, $150,000.

Wis., Waukesha—Carroll College will build boys dormitory. Estimated cost, $100,000. Wilbur O. Canier, Pres.

Iowa, Carroll—Bonds for $80,000 voted for school.

Iowa, Sioux City—Trinity Luthern Church will build edifice and parsonage at estimated cost of $100,000. A. J. Stenseth, Chn. Finance Com.

Minn., St. Paul—Election will be held in spring to vote on $500,000 bond issue for schools.

Kan., Hiawatha—Bonds for $60,000 sold for school construction.

Kan., Salina—Bids will be received until Oct. 27 by [illegible] Housel, Clk., Bd. of Education, for school. Estimated cost, $60,000. William T. Schmitt, 1634 West Tenth St., Oklahoma, Okla., Arch.

Kan., Wellington—(Official)—Bids will be received after Dec. 1 by G. A. Halliday, Secy., Y. M. C. A., for building. Estimated cost, $50,000. Noted Oct. 7.

Kan., Wichita—Election will be held to vote on $100,000 bonds for jail.

Neb., Lincoln—W. E. Sharp, Pres. Lincoln Traction Co., will build office and store at Tenth and O St. Estimated cost, $500,000.

Wyo., Sheridan—George H. Brown is having plans prepared by Baerresen & Wieger, Arch., for hotel on site of Western Hotel. Estimated cost, $125,000.

Mo., Carthage—Bids will be received until Nov. 11 by L. M. Thomas, County Clk., of Jasper County, for purchase of $100,000 bonds for sanitarium. Noted Sept. 30.

Mo., Carthage—First Presbyterian Congregation will build church. Estimated cost, $40,000.

Mo., Kansas City—Plans being prepared for four-story brick hotel at Ninth and Charlotte St. for Hoffman Bros. Investment Co., 524 Ridge Bldg. Estimated cost, $45,000. W. Hilton Smith, 518 Massachusetts Bldg., Arch.

SEWER SYSTEM—OCALA, FLA.

Bids were received Sept. 14 for the construction of a sewer system at Ocala, Fla., from: (A) G. W. Ensign Inc., Harrisburg, Penn.; (B) J. F. Morgan Contracting Co., Attalla, Ala.; (C) J. B. Sheets Co., Pittsburgh, Penn.; (D) O'Sullivan, Long & Haggerty, Bessemer, Ala.; (E) Independent Construction Co., Terre Haute, Ind.; (F) Stamm & Son, St. Petersburg, Fla.; (G) Michler & Flynn, Chattanooga, Tenn.; (H) Guild & Co., Chattanooga, Tenn.; (I) H. W. Tucker, Ocala, Fla.; (J) BRYAN & CO., Jacksonville, Fla., (awarded contract); (K) W. J. Irwin & Son, Greenville, Ohio; (L) Whaley & Edwards, Milan, Mich.; (M) Duval & Ashworth, Miami, Fla. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
5,580 lin.ft. 6-in. service pipe 6 ft. deep	$0.29	$0.25	$0.28	$0.30	$0.32	$0.30	$0.23	$0.27	$0.183	$0.18	$0.25	$0.51	$0 40
208 lin.ft. 6-in. vertical service pipe in deep trenches	.32	.25	.15	.20	.17	.30	.23	.24	.122	.35	.20	.30	.16
10,270 lin.ft. 8-in. sewer pipe, 0-4 ft. deep	.39	.26	.37	.24	.34	.40	.27	.29	.28	.23	.30	.52	.42
65,115 lin.ft. 8-in. sewer pipe 4-6 ft. deep	.52	.32½	.40	.32	.34	.472	.38	.37	.34	.26	.35	.57	.47
18,135 lin.ft. 8-in. sewer pipe 6-8 ft. deep	.84	.43	.46	.45	.46	.65	.56	.44	.54	.39	.40	.69	.58
5,520 lin.ft. 8-in. sewer pipe 8-10 ft. deep	.85	.55	.61	.60	.75	.85	1.09	.78	.65	.60	.50	1.07	.70
1,955 lin.ft. 8-in. sewer pipe 10-12 ft. deep	1.21	.80	.69	.90	1.00	1.15	1.58	1.37	.88	.85	.70	1.45	.90
100 lin.ft. 8-in. sewer pipe 12-14 ft. deep	1.68	1.50	.70	1.30	1.20	1.35	2.20	2.19	1.07	1.60	1.00	1.82	1.20
105 lin.ft. 8-in. sewer pipe 14-16 ft. deep	2.71	2.25	.93	1.80	1.70	1.75	3.50	2.85	1.20	1.85	1.40	2.98	1.50
115 lin.ft. 8-in. sewer pipe 16-18 ft. deep	3.00	2.75	1.20	2.40	2.00	2.30	5.00	4.19	1.40	2.25	1.60	3.57	2.00
1,985 lin.ft. 10-in. sewer pipe 0-4 ft. deep	.42	.32	.40	.30	.44	.50	.36	.35	.39	.30	.35	.46	.50
2,245 lin.ft. 10-in. sewer pipe 4-6 ft. deep	.51	.40	.43	.40	.44	.60	.45	.44	.46	.33	.45	.56	.58
1,630 lin.ft. 10-in. sewer pipe 6-8 ft. deep	.67	.48	.42	.50	.54	.80	.63	.52	.62	.46	.55	.70	.73
1,345 lin.ft. 10-in. sewer pipe 8-10 ft. deep	.80	.65	.57	.70	.80	1.05	1.15	.89	.75	.67	.85	1.05	.95
570 lin.ft. 10-in. sewer pipe 10-12 ft. deep	1.24	1.25	.65	1.00	1.07	1.30	1.64	1.57	1.12	.92	1.00	1.40	1.25
370 lin.ft. 10-in. sewer pipe 12-14 ft deep	1.71	2.00	.73	1.40	1.27	1.50	2.29	2.37	1.23	1.67	1.20	2.48	1.50
170 lin.ft. 12-in. sewer pipe 0-4 ft. deep	.47	.45	.39	.40	.52	.65	.44	.43	.54	.37	.50	.62	.65
1,040 lin.ft. 12-in. sewer pipe 4-6 ft. deep	.57	.50	.42	.55	.52	.76	.53	.53	.60	.40	.60	.70	.75
990 lin.ft. 12-in. sewer pipe 6-8 ft. deep	.72	.60	.48	.65	.64	1.00	.70	.63	.71	.53	.80	.85	0 90
15 lin.ft. 12-in. sewer pipe 8-10 ft. deep	.85	1.25	.63	.85	.90	1.25	1.24	1.04	1.15	.75	1.00	1.00	1 20
1,235 lin.ft. 15-in. sewer pipe 0-4 ft. deep	.54	.61	.53	.55	.67	.85	.58	.58	.67	.57	.70	.78	.75
780 lin.ft. 15-in. sewer pipe 4-6 ft. deep	.64	.70	.57	.70	.67	.95	.77	.69	.75	.67	.80	.82	1 00
1,075 lin.ft. 15-in. sewer pipe 6-8 ft. deep	.79	.90	.64	.80	.87	1.40	1.38	.78	1.10	.80	1.00	.98	1 25
390 lin.ft. 15-in. sewer pipe 8-10 ft. deep	.97	1.20	.84	1.00	1.05	1.65	1.85	1.24	1.31	1.10	1.20	1.18	1 65
23 manholes 0-4 ft. deep	26.00	29.50	22.00	20.00	30.00	28.00	23.00	24.00	30.00	25.00	29.00	20.00	29 00
135 manholes 4-6 ft. deep	30.00	33.50	24.00	25.00	35.00	36.50	28.00	28.00	34.00	27.50	34.00	25.00	37 00
41 manholes 6-8 ft. deep	40.00	37.50	29.00	32.00	40.00	45.10	33.00	32.00	42.00	30.00	42.00	35.00	45 00
28 manholes 8-10 ft. deep	47.50	46.00	34.00	40.00	45.00	56.00	40.00	39.00	51.00	35.00	50.00	45.00	55 00
8 manholes 10-12 ft. deep	52.00	55.50	39.00	50.00	50.00	64.00	45.00	45.00	60.00	40.00	58.00	55.00	67 00
1 manhole 12-14 ft. deep	55.00	68.00	46.00	60.00	55.00	70.00	51.00	54.00	74.00	60.00	70.00	65.00	82 00
1 manhole 16-18 ft. deep	62.00	77.50	59.00	80.00	60.00	100.00	62.00	63.00	93.00	80.00	95.00	75.00	100 00
22 drop connections to manholes	20.00	5.00	15.00	3.00	10.00	10.00	4.00	4.00	11.00	10.00	10.00	10.00	8 00
8 lamp holes	12.00	8.00	12.00	7.50	10.00	10.00	10.00	12.00	8.00	10.00	5.00	5.00	5 00
49 automatic flush tanks 0-6 ft. deep	80.00	62.00	75.00	60.00	70.00	60.00	70.00	65.00	59.00	55.00	60.00	70.00	85 00
2 automatic flush tanks 6-8 ft. deep	90.00	70.00	80.00	70.00	75.00	70.00	70.00	72.00	64.00	70.00	70.00	75.00	95 00
34 hand flush tanks 0-6 feet deep	50.00	38.50	40.00	30.00	45.00	45.00	60.00	35.00	48.00	40.00	34.00	60.00	45 00
3 hand flush tanks 6-8 ft. deep	55.00	50.00	45.00	40.00	50.00	57.50	60.00	40.00	56.00	45.00	45.00	70.00	55.00
40 Y-branches 15x6-in	.95	1.20	.95	.50	1.00	.95	.90	.60	1.10	1.00	1.00	1.15	1 45
54 Y-branches 12x6-in	.65	.85	.65	.35	.75	.65	.75	.48	.78	.75	.75	.78	1 00
192 Y-branches 10x6-in	.50	.70	.50	.25	.55	.37	.60	.36	.65	.50	.60	.60	80
2,481 Y-branches 8x6-in	.35	.40	.25	.20	.40	1.10	.35	.24	.50	.10	.50	.47	.50
1,551 sq.yd. grouted brick taken up and relaid	1.80	1.70	2.00	.75	1.70	.25	1.60	2.00	1.20	.35	2.50	3.00	.40
1,585 sq.yd. sand filler brick taken up and relaid	1.20	.50	1.50	.25	.48	.40	.50	.50	.30	.25	1.50	2.50	.20
7,381 sq.yd. macadam pavement taken up and relaid	.85	.30	.70	.10	.60	2,952.40	.60	.50	.40	.20	.50	.70	.20
2 sewage settling tank (lump sum)	.....	3,960.06	2,500.00	6,000.00	4,000.00	3,950.00	4,150.00	7,468.20	4,100.00	4,750.00	3,900.00	.....	4,700.00
1 chemical and sludge pump house (lump sum)	.....	1,235.00	800.00	1,000.00	680.00	900.00	1,300.00	2,330.00	850.00	750.00	900.00	.....	900.00
1 sludge bed (lump sum)	.....	500.00	440.00	500.00	383.00	525.00	525.00	659.50	525.00	500.00	500.00	.....	300.00
1 settling basin (lump sum)	.....	710.00	215.00	700.00	563.00	290.00	750.00	986.00	550.00	650.00	500.00	.....	450.00
1 sewage pump and motor installed (lump sum)	.....	500.00	480.00	350.00	462.00	550.00	750.00	440.00	400.00	370.00	550.00	.....	1,300.00
1 chemical feed tank (lump sum)	.....	175.00	85.00	125.00	170.00	110.00	.....	225.00	125.00	150.00	125.00	.....	100.00
260 18-in. sewer pipe 4 ft. deep	.....	.70	1.25	.85	.80	1.22	.80	.94	.85	.75	.90	.85	1 25
30 8-in. sewer pipe 4 ft. deep	.....	.26	.45	.25	.35	.50	.35	.40	.35	.50	.30	.42	.52
50 6-in. soil pipe	.....	.60	.30	.50	.50	.65	.55	.33	.40	.60	.50	.12	.70
5 by pass manholes	.....	45.00	35.00	35.00	40.00	10.00	40.00	33.00	26.00	25.00	25.00	65.00	10.00
1 manhole over 10-in. well	.....	40.00	35.00	30.00	40.00	30.00	30.00	46.00	32.00	25.00	23.00	.....	30.00
1,487 cu.yd. fill	.....	.40	.50	.40	.50	.40	.50	.40	.34	.30	.30	.40	.10
30 cu.yd. class "A" concrete	10.00	12.00	7.50	10.00	10.00	15.00	10.00	12.00	8.50	7.00	9.00	3.50	10.00
3M ft. b.m. lumber in foundations and trenches	20.00	38.00	25.00	30.00	20.00	25.00	35.00	25.00	35.00	25.00	35.00	20.00	20.00
150 cu.yd. rock excavation	20.00	38.00	25.00	30.00	20.00	25.00	35.00	25.00	35.00	25.00	35.00	20.00	20.00
25 18-in. comp. sewer joints	1.50	4.60	3.00	2.00	6.00	.50	3.00	3.00	2.50	3.00	2.50	3.50	1 25
200 15-in. comp. sewer joints	.....	1.00	.45	.75	.50	.55	.40	.40	.24	.25	.30	.30	67
100 12-in. comp. sewer joints	.20	.75	.35	.60	.40	.45	.25	.27	.21	.15	.25	.25	33
200 10-in. comp. sewer joints	.18	.50	.30	.45	.35	.35	.20	.20	.20	.12	.20	.25	47
1,000 8-in. comp. sewer joints	.16	.35	.25	.35	.30	.30	.17	.17	.19	.10	.17	.20	40
1 10-in. well approximately 300 ft. deep	.15	.25	.22	.25	.25	.25	.14	.13	.14	.08	.15	.20	3
72 ft. extra for 16-in. c.i. pipe	.....	5.50	5.15	4.25	5.00	4.25	4.25	5.00	5.00	4.25	5.00	.....	4 00
928 ft. extra for 10-in. c.i. pipe	6.20	3.25	2.25	1.75	2.50	.....	1.70	1.70	2.50	2.00	4.00	.....	.....
384 ft. extra for 8-in. c.i. pipe	4.10	1.70	1.30	1.00	1.30	.....	1.00	.80	1.30	1.00	2.50	.....	.....
	2.90	1.40	1.00	.70	.95	.....	.75	.60	1.20	.75	2.00	.....	.....
Extended totals	$104,743	$81,227	$85,668	$74,549	$87,164	$99,023	$32,825	$91,259	$83,894	$66,740	$36,822	$109,293	$93,96

Mo., Kansas City—Bids will soon be received for Mercy Hospital building. Estimated cost, $150,000. Wilder & Wight, Kansas City, Arch. Noted Aug. 19.

Mo., St. Louis—Catholic Cathedral of St. Louis will build parish school. Estimated cost, $100,000.

Mo., St. Louis—F. Warner will build motion picture theater on St. Louis Ave. Estimated cost, $50,000.

Mo., St. Louis—Seventeenth St. Realty Co. will build additional story to Warwick Hotel. G. F. A. Brueggeman, St. Louis, Arch. Estimated cost, $50,000.

Tex., Beaumont—Kansas City Southern R.R. Co. will build passenger station. J. A. Edson, Pres. Estimated cost, $100,000.

Tex., Corpus Christi—Y. M. C. A. plans building. Estimated cost, $65,000. T. A. Anderson, Pres.

Tex, Corsicana—Citizens voted $125,000 bonds for schools.

Tex., Dallas—Bids will be received about Nov. 1 for temple for Emanuel Jewish Church. Hubbell & Green, Dallas, Arch. Estimated cost, $125,000.

Tex., Dallas—Van Slyke & Woodruff, Fort Worth, preparing plans for three-story brick and stone church for Oak Cliff Christian Church. Estimated cost, $40,000. A. E. Efell, Pastor.

Tex., El Paso—Bids will be received until noon, Oct. 20, by Board of Education for high school. Trost & Trost, Mills Bldg., Arch.

Tex., El Paso—Bids will be received until Nov. 9 by County Commissioners for court house and county jail. Trost & Trost, Arch. Estimated cost, $400,000.

Tex., El Paso—Bond issue for $100,000 for poorhouse and poor farm approved.

Tex., Palestine—Bids will soon be received for high school. Sanguinet & Staats, Fort Worth, Arch. Estimated cost, $100,000. Noted Aug. 5.

Tex., San Diego—(Official)—Bids will be received until noon, Oct. 23, by Charles Mull, Bldg. Comn., for two-story brick school. Lane & Dawdy, Arch.

Tex., Wichita Falls—Election will be held to vote on $150,000 bonds for court house.

Okla., Ardmore—W. F. Whittington will rebuild hotel which was recently destroyed by explosion. Estimated cost, $150,000.

Okla, Enid—J. B. Ferguson contemplates three-story brick business building.

Okla., Sand Springs—Charles Page, Tulsa, plans semi-charitable sanitarium and eye hospital. Estimated cost, $150,000.

Okla., Tulsa—Contract will be let in November for high school. Walter E. Gilham, Kansas City, Mo., Arch. Estimated cost, $300,000.

Calif., San Bernardino—(Official)—Election to vote $210,000 bonds for city hall, auditorium and parks postponed indefinitely. Noted July 29.

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.
44th Duct Line

Bids were received, Aug. 4, by the Public Service Commission for the construction of the 44th duct line of the Queensboro Rapid Transit R.R. from, (A) E. C. Moore, (B) Knight & De Micco, Inc., (C) Beaver Engineering & Contracting Co., (D) Hanover Contracting Co., (E) William A. Mitchell, (F) Sorace Contracting Co., (G) Henry E. Fox Construction Co., (H) Goodwin Construction Co., (I) T. H. Reynolds Contracting Co., Inc., (J) Thomas Crimmins Contracting Co., (K) Joseph A. McElroy, (L) Kingsbridge Contracting Co., (M) James O'Leary, (N) G. M. Gest, (O) Frawley-Kaufman Contracting Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3600 cu.yd. earth excavation, above and below mean high water	$2.20	$1.00	$1.25	$1.80	$1.26	$3.00	$2.00	$3.50	$1.60	$2.03	$1.70	$3.00	$4.00	$2.00	$2.50
1000 cu.yd. rock excavation	2.20	2.00	3.00	1.80	4.00	5.00	3.00	3.50	5.00	9.00	5.00	3.00	4.00	5.50	10.00
250 cu.yd. concrete masonry	10.00	8.00	7.00	9.00	6.50	8.00	7.00	7.00	7.00	8.00	25.00	8.00	10.00	8.50	9.00
10 cu.yd. brick masonry	15.00	10.00	12.00	15.00	15.00	8.00	10.00	15.00	13.00	15.00	15.50	18.00	15.00	15.00	15.00
250 lin.ft. vitrified or c.i. drain pipe, in place, 4-in. vitrified	.50	.50	.10	.40	.40	.20	.50	.40	.30	.33	1.00	.40	.10	.50	.50
111,000 duct ft. railroad ducts in place—as required by section 152	.13	.15	.161	.17	.14	.10	.20	.11	.125	.15	11	.18	20	135	15
6 ton riveted steel	60.00	60.00	80.00	50.00	54.00	30.00	40.00	60.00	55.00	50.00	110.00	60.00	50.00	55.00	60.00
6 ton steel beams and shapes	60.00	50.00	80.00	50.00	46.00	25.00	40.00	50.00	52.00	57.50	100.00	60.00	40.00	50.00	50.00
1 ton steel rods and bars	60.00	50.00	60.00	50.00	60.00	30.00	40.00	50.00	58.00	50.00	100.00	60.00	45.00	60.00	60.00
33 ton miscellaneous iron castings	40.00	50.00	45.00	50.00	50.00	33.00	40.00	50.00	60.00	35.00	79.00	30.00	50.00	45.00	50.00
100 sq.yd. street surface restored within curb lines	1.00	1.50	.10	.50	1.25	1.50	1.50	1.00	3.00	1.00	2.25	1.10	1.00	2.00	2.50
1250 sq.yd. street surfacd resotred between curbs (asphalt)	2.00	2.50	2.00	2.50	2.75	3.00	2.00	2.00	2.50	2.41	3.80	2.50	2.50	3.75	2.50
700 sq.yd. street surface restored between curbs (granite block)	.80	2.00	1.60	2.00	2.50	2.00	1.00	2.25	1.60	2.20	1.58	1.25	2.00	3.00	1.50
50 sq.yd. street surface restored between curbs (asphalt block)	1.00	2.50	3.00	3.00	3.50	2.00	2.00	3.50	2.75	2.80	2.50	3.50	2.50	4.00	3.00
500 lin.ft. water pipes, 6 in.	.01	.30	.25	.25	.30	.25	.40	.40	1.25	1.00	.65	1.00	.10	1.00	1.00
250 lin.ft. water pipes, 12 in.	.01	.50	.30	.40	1.00	.50	.60	.75	2.35	2.00	1.05	1.50	.15	1.20	2.00
100 lin.ft. water pipes, 30 in.	.01	2.00	.80	.60	1.50	1.00	2.00	2.00	5.50	2.00	4.50	2.50	.20	6.00	3.00
100 lin.ft. water pipes, 48 in.	.01	5.00	.80	1.00	3.00	2.00	2.00	3.00	10.50	3.00	6.50	6.00	.25	10.00	4.00
80 service connections for water pipe	.01	5.00	3.00	2.00	5.00	2.00	1.00	12.00	12.50	8.00	10.00	10.00	1.00	18.00	15.00
150 lin.ft. gas pipe, c.i. 4 in.	.01	.30	.25	.15	.50	.25	.20	.50	.75	.25	.60	.60	.10	.65	1.00
150 lin.ft. gas pipe, c.i. 6 in.	.01	.30	.30	.20	.70	.25	.40	.75	.85	.75	.75	.75	.12	1.00	1.00
100 lin.ft. gas pipe, c.i. 8 in.	.01	.40	.35	.25	.90	.30	.40	1.00	.95	.75	1.03	1.00	.15	1.25	1.00
100 lin.ft. gas pipe, c.i. 12 in.	.01	.50	.40	.30	1.10	.50	.60	1.50	1.25	1.00	1.75	1.25	.20	1.75	1.50
100 lin.ft. gas pipe, c.i. 16 in.	.01	1.00	.45	.40	1.25	.75	1.00	1.75	1.75	1.00	2.60	1.50	.25	2.00	1.75
150 lin.ft. gas pipe, c.i. 20 in.	.01	1.50	.50	.50	1.80	1.00	1.20	2.00	2.25	1.00	3.85	1.75	.30	3.00	2.00
200 lin.ft. gas pipe, c.i. 24 in.	.01	2.00	.55	.60	2.00	1.00	1.50	2.50	3.00	1.00	4.50	2.00	.30	4.50	2.50
100 lin.ft. gas pipe, c.i. 30 in.	.01	2.00	.80	.75	3.50	2.00	2.00	3.00	5.00	1.00	5.50	2.50	.35	6.50	3.00
100 lin.ft. gas pipe, w.i. 4 in.	.01	.50	.25	.15	1.00	.50	.20	.50	1.00	.25	.50	.50	.25	.90	1.00
100 lin.ft. gas pipe, w.i. 6 in.	.01	.75	.30	.20	1.00	.50	.40	.75	1.60	.25	.75	.75	.25	1.25	1.00
100 lin.ft. gas pipe, w.i. 8 in.	.01	1.00	.35	.25	1.00	.50	.40	1.00	2.00	.25	.95	1.00	.25	1.75	1.00
50 service connection for gas pipe	.01	5.00	8.00	2.00	3.00	10.00	1.00	10.00	15.00	5.00	6.00	10.00	1.00	12.00	15.00
30 ton c.i. hub and spigot pipe—straight	40.00	30.00	25.00	22.00	37.00	30.00	25.00	35.00	35.00	50.00	31.00	40.00	20.00	45.00	50.00
50 lin.ft. new gas pipe, w.i. 4 in.	.01	.60	.40	.20	2.00	.50	.50	1.00	1.00	.75	1.00	.50	.90	.60	
50 lin.ft. new gas pipe, w.i. 6 in.	.01	.75	.60	.25	2.00	.50	1.00	1.00	1.75	1.00	1.25	1.25	.50	1.25	.80
50 lin.ft. new gas pipe, w.i. 8 in.	.01	.00	.80	.30	2.00	.50	1.50	1.50	2.70	1.30	1.75	1.50	.50	1.50	
20 ton c.i. hub and spigot pipe, special	50.00	75.00	60.00	65.00	62.00	75.00	60.00	50.00	75.00	70.00	75.00	60.00	40.00	80.00	60.00
100 lb. iron fittings for new w.i. gas pipe	.01	.10	.10	.15	.05	.10	.30	.10	.10	.05	.10	.10	.05	.20	.10
1000 duct ft. electric ducts and conduits	.01	.20	.20	.20	.30	.50	.40	.40	.50	.35	.40	.60	.05	.50	.80
200 lin.ft. electric ducts and conduits, w.i. pipe 2½ in.	.01	.30	.30	.20	.50	.40	.40	.40	.50	.25	.20	.75	.20	.50	.80
1800 lin.ft. electric ducts and conduits, w.i. pipe, 3 in.	.01	.40	.40	.25	.50	.50	.40	.50	.55	.35	.30	.75	.20	.55	.80
1400 lin.ft. electric ducts and conduits, w.i. pipe, 3½ in.	.01	.50	.50	.25	.50	.50	.40	.60	.60	.45	.37	.75	.20	.65	.80
10 service connections for electric conduits	.01	5.00	8.00	5.00	10.00	10.00	5.00	15.00	15.00	5.00	6.00	20.00	1.00	25.00	15.00
Extended totals	$34,905	$38,847	$38,918	$40,900	$41,728	$42,784	$45,555	$45,885	$46,460	$49,953	$50,119	$52,802	$53,050	$53,052	$57,395

Colo., Loveland—Election will be held Nov. 1 to vote on $125,000 bonds for high and grammar schools.

N. M., Deming—H. H. Kelly and associates contemplate hotel at estimated cost of $100,000.

Idaho, Gooding—At recent conference at Boise, Methodists planned college at Gooding. Estimated cost, $400,000. J. W. Hancer, Secy., General Bd. of Education of Methodists.

Wash., Peone—(Meade post office)—St. Michael's Jesuit Scholastic Institution will build seminary. A. F. Schinner, Spokane, in charge. Estimated cost, $100,000.

Wash., Seattle—Trustees of N. C. Healy Estate will build eight-story addition to Cobb-Healy Bldg., on Third Ave, near Pike St. Estimated cost, $100,000. Howells & Stokes, Henry Bldg., Arch.

Wash., Tacoma—Health & Gove, National Realty Bldg., Tacoma, prepared plans for reinforced-concrete gymnasium for Stadium High School. Estimated cost, $70,000.

Ore., Eugene—Ellis F. Lawrence, Portland, prepared plans for Womans' Memorial Building on campus of University of Oregon. Estimated cost, $100,000.

Ore, Marshfield—Election will be held in December to vote on $40,000 bonds for city hall.

Ore., Portland—(Official)—Bids will be received about Dec. 1 by School Clerk for Benson Polytechnic School. Estimated cost, $200,000. Noted Sept. 30.

Calif., Berkeley—Plans being prepared for campus buildings for University of California. Estimated cost, $1[illegible]

Calif., Covina—Masonic Homes Association having plans prepared by E. B. Spencer, Union League Bldg., for buildings for Orphans' Home. Estimated cost, $80,000.

Calif., El Centro—S. B. Zimmer, El Centro, preparing plans for high school for Central Union High School district. Estimated cost, $135,000.

Calif., Lodi—Election will be held Oct. 26 to vote on $45,000 bonds for school.

Calif., Los Angeles—F. W. Braun will build two buildings, one at 59th St. and South Vermont Ave. and the other at 58th St. and Clauson Ave. Estimated cost, $75,000. W. J. Saunders and W. W. Mines & Co., Archs.

Calif., Taft—Citizens will vote on $60,000 bond issue for high school.

Que., Montreal—Bonds for $3,000,000 sold for construction of Catholic Churches in Quebec. Charles A. Stoneham & Co. is in charge.

DAM—HARTFORD, CONN.
Contract No. 10

Bids were received Aug. 21 by the Board of Water Commissioners for the construction of the Richards Corner Dam, Contract No. 10, from, (A) C. W. BLAKESLEE & SONS, New Haven (awarded contract), (B) Larkin & Sangster, Seneca Falls, N. Y., (C) Winston & Co., 290 Broadway, New York, N. Y., (D) Coleman Bros., Chelsea, Mass., (E) T. Stuart & Son Co., Newton, Mass., (F) Peter F. Connolly & Co., Boston, Mass., (G) Bruno & Petitti, Boston, Mass., (H) Hugh Nawn Contracting Co., Boston, Mass., (I) H. S. Kerbaugh, Inc., 6 Church St., New York, N. Y., (J) Fred T. Ley & Co., Inc., Springfield, Mass., (K) Pierson Engineering & Construction Co., Hartford, (L) Walsh Construction Co., Davenport, Iowa, (M) J. F. Carman Co., Woolworth Bldg., New York, N. Y., (N) Bates & Rogers Construction Co., Chicago, Ill., (O) James A. Hart Co., 256 Broadway, New York, N. Y. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
25 acres clearing and grubbing	$125.00	$125.00	$100.00	$150.00	$125.00	$200.00	$175.00	$150.00	$160.00	$65.00	$200.00	$100.00	$150.00	$125.00	$200.00
26,000 cu.yd. earth excavation in cut-off trench below El. 360	.67	.80	1.15	2.00	1.50	2.25	1.25	1.25	.60	.95	1.00	.80	1.50	3.60	1.00
140,000 cu.yd. earth excavation for dam and highway not in item 2	.35	.40	.40	.40	.38	.45	.60	.55	.45	.64	.48	.40	.60	.40	.65
3900 cu.yd. rock excavation for conduit and under core-wall and waste weir	2.15	3.00	3.00	3.00	3.00	3.50	2.50	2.25	1.60	3.75	3.60	5.50	5.00	5.00	3.00
20,000 cu.yd. rock excavation not included in Item 4	1.48	1.60	1.40	1.50	1.50	1.25	1.75	1.65	1.15	2.00	2.00	3.00	2.00	1.25	2.25
3,000 sq.yd. special preparation of rock surfaces	.50	.45	.40	.50	.40	.50	.75	.25	.25	.30	.33	.50	.25	.30	.50
85,000 cu.yd. refilling and embanking of soil	.62	.55	.54	.45	.40	.50	.50	.55	.80	.65	.60	.72	.60	.70	1.00
180,000 cu.yd. refilling and embanking of gravvelly material and rock	.27	.40	.47	.37	.40	.31	.40	.45	.60	.55	.43	.42	.45	.48	.90
37,000 cu.yd. refilling and embanking of cofferdams	.20	.20	.10	.49	.40	.50	.15	.30	.33	.12	.35	.40	.30	.15	.85
5,000 cu.yd. surface dressing and grassing	.70	.80	.60	.50	1.00	1.00	.40	.75	.54	1.00	.82	.75	2.00	.60	1.00
15,700 cu.yd. concrete masonry, Class A	3.90	3.90	3.50	3.80	4.40	3.95	4.75	3.50	4.00	3.00	4.75	4.25	4.00	4.90	5.00
2,000 cu.yd. concrete masonry, Class w	3.95	5.50	5.00	5.50	7.50	6.00	5.00	7.00	5.15	4.50	8.00	7.00	7.00	6.15	6.50
2,000 cu.yd. concrete masonry, Class C	4.20	5.50	6.00	5.50	7.50	6.00	5.00	6.00	5.30	3.00	5.50	7.00	7.00	5.25	8.00
100 cu.yd. concrete masonry, Class D	5.60	9.50	9.00	7.00	12.00	7.00	6.00	8.00	16.00	8.00	10.00	8.00	10.00	13.50	12.00
1,800 sq.ft. finishing concrete surfaces by scrubbing and washing with acid	.08	.08	.10	.10	.05	.05	.25	.05	.32	.05	.10	.03	.05	.10	.10
25 cu.yd. brick masonry	14.50	20.00	20.00	16.00	20.00	20.00	15.00	20.00	15.00	25.00	20.00	20.00	10.00	12.50	20.00
Grouting machines and equipment (lump sum)	300.00	500.00	350.00	400.00	500.00	450.00	100.00	100.00	250.00	300.00	1,000.00	4,000.00	400.00	1,000.00	500.00
200 making connections from machines to grout pipes	.50	2.00	.25	1.00	2.00	1.00	1.00	1.00	1.20	2.50	2.00	5.00	1.00	2.50	2.75
306 cu.yd. grout	4.75	4.00	5.00	5.00	5.50	5.00	6.00	3.00	10.00	10.00	7.00	8.00	6.00	5.00	7.00
3,000 lin.ft. drilling holes in rock and masonry	.35	.50	.40	.40	.55	.50	.50	.50	.44	.80	.75	.35	.25	.60	1.00
25,000 bbl. Portland cement	1.71	1.65	1.60	1.50	1.75	1.70	1.60	1.90	1.60	1.70	1.75	1.90	1.60	1.75	2.00
800 cu.yd. paving and dry rubble masonry	3.25	3.00	2.50	2.50	3.50	2.00	3.00	4.50	3.30	3.50	3.00	4.00	2.50	1.25	3.50
1,000 cu.yd. riprap	1.30	2.00	1.25	2.00	2.00	1.50	1.00	1.50	1.11	2.50	2.00	3.00	1.50	1.00	2.00
5 ton furnishing and laying c.i. pipe and special castings	50.00	55.00	35.00	60.00	60.00	50.00	50.00	60.00	70.00	100.00	70.00	100.00	50.00	45.00	70.00
1,000 lb. small steel pipe	.03	.06	.04	.05	.06	.06	.10	.04	.06½	.05	.10	.06	.05	.05	.10
40,000 lb. metal for reinforcing concrete and water stops	.04	.04	.04	.03	.04	.04	.04	.02½	.05	.03½	.04	.03½	.04	.03½	.05
35,000 lb. miscellaneous cast iron and steel	.04½	.04½	.05	.05	.06	.07	.04	.03½	.06½	.05	.06	.06	.05	.04	.10
500 lb. bronze and copper	.75	.45	.60	.30	.50	.50	.50	.35	.75	.50	1.00	.50	1.00	1.00	.75
15,000 lb. receiving, hauling, storing and placing metal work furnished by Board	.03	.02	.02	.01	.02	.02	.01	.00½	.03	.02	.03	.02	.02	.02	.02
200 lin.ft. vitrified pipe, 8 in. or less in diameter	.55	.40	.50	.50	.50	.50	1.00	.25	.35	.30	1.00	.75	.35	.35	.40
100 lin.ft. vitrified pipe, 10 in. to 15 in. in diameter	1.25	.85	1.00	.70	.85	.80	1.00	.50	.75	.75	1.50	1.50	.60	.75	.75
3,500 sq.yd. gravel surface for highways	.58	.50	.75	.40	.60	.50	.25	.60	.65	.50	.50	.80	.50	.50	.60
1,000 lin.ft. wooden guard rails	.30	.25	.25	.30	.35	.35	.40	.20	.35	.30	.35	.40	.35	.25	.50
Care and maintenance of highways (lump sum)	500.00	500.00	200.00	500.00	500.00	200.00	100.00	1,000.00	1,800.00	1,000.00	500.00	1,000.00	500.00	600.00	1,500.00
200 cu.yd. gravel and broken stone	2.10	1.50	1.00	2.00	2.00	1.50	1.00	2.00	2.50	1.50	2.00	2.00	2.00	2.25	2.50
100 lin.ft. test borings	4.50	8.00	5.00	4.00	5.00	5.00	†2.00	4.00	7.50	7.00	10.00	†2.00	5.00	10.00	5.00
Extended totals	$357,766	$396,999	$399,540	$414,940	$426,290	$433,195	$438,750	$442,805	$449,646	$461,190	$465,285	$485,539	$486,970	$512,267	$723,860

† These prices excluded in computing average bid.

Ont., **London**—Utilities Board contemplates office building. E. V. Buchanan, City Hall, Gen. Mgr. Estimated cost, $75,000.

Alta., **Calgary**—Calgary Roman Catholic District No. 1 will build three schools. Estimated cost, $50,000. A. B. MacDonald, Treas.

Bids In and Contracts Awarded

N. H., **Dover**—Contract awarded to E. H. FROST, Dover, for addition and alterations to Museum for Woodman Institute.

R. I., **Westerly**—Contract awarded to CHARLES B. MAGUIRE CO., Providence, at $50,000, for three-story and basement brick bank building for Industrial Trust Co.

Mass., **West Springfield**—Contract for Carnegie Library at Park and Elm St. awarded to E. T. DAVIS & CO.

N. Y., **Jamestown**—Contract awarded to NATIONAL ENGINEERING CO., 504 Marshall Bldg., Cleveland, at $200,000, for ten-story building for Chamber of Commerce.

N. Y., **New York**—(Borough of the Bronx)—(Official)—Contract awarded to R. H. CASEY, Inc., 245 West 16 St., at $175,000, for four-story, 100x200-ft. hospital at 196th St. and Grand Concourse for Home of Holy Comforter. J. B. Snook Sons, 261 Broadway, Arch. Noted July 29 and Aug. 12.

N. Y., **New York**—(Borough of the Bronx)—(Official)—Contract awarded to WILLIAM CRAWFORD, 5 East 42d St., at $250,000, for three-story, 194x196-ft. brick asylum at Grand Blvd., 193d St. to Kingsbridge Rd. for Society for the Relief of Destitute Blind.

N. Y., **New York**—(Borough of Brooklyn)—(Official)—Contract awarded to H. C. STOWE CONSTRUCTION CO., for alterations and additions to P. S. 89 at Newkirk Ave. near East 31st St. Noted Aug. 19.

N. Y., **New York**—(Borough of Brooklyn)—(Official)—Contract for building for St. John's Hospital for Crippled on President St. awarded to WILLIAM KENNEDY CONSTRUCTION CO., 215 Montague St. Estimated cost, $75,000.

N. Y., **New York**—(Borough of Manhattan)—(Official)—Contract awarded to JOHN T. BRADY CO., 103 Park Ave., at about $130,000 for five-story, 100x125-ft. parochial school at 329 West 13th St., for St. Bernard's Parish. Noted Sept. 16.

N. Y., **New York**—(Borough of Manhattan)—(Official)—Contract awarded to EDWARD CORNING, 52 Vanderbilt Ave., at $40,000, for alterations to building at 716 Fifth Ave. for Metropolitan Trust Co.

N. Y., **New York**—(Borough of Manhattan)—(Official)—Contract awarded to WILLIAM L. CROW CONSTRUCTION CO., 103 Park Ave., New York, at $50,000, for six-story, 22x109-ft., loft and office building at 24 East 42d St. for William Parsons. H. L. Walker, 103 Park Ave., is Arch.

N. Y., **Rochester**—Contract awarded to A. W. HOPEMAN & SONS' CO., Rochester, for edifice for Parsells Ave. Baptist Church.

N. Y., **Syracuse**—Onondago Building and Construction Co., at $202,298, was low bidder for Delaware school at Delaware and Geddes St. Noted Sept. 28.

N. J., **Bayonne**—(Official)—Contract awarded to E. E. PAUL CO., 101 Park Ave., New York, N. Y., at $45,000, for two-story, 50x77-ft., brick building for New York Telephone Co., 15 Dey St., New York. Noted Sept. 30.

N. J., **Hoboken**—(Official)—Contract awarded to WHITNEY CO., 1 Liberty St., New York, N. Y., for buildings for Stevens Institute. Ludlow & Peabody, 101 Park Ave., New York, N. Y., Arch.

N. J., **Jersey City**—John T. Brady Co., 103 Park Ave., New York, N. Y., at $754,840, was low bidder for Hudson County Jail. Bids opened Oct. 7. Noted Sept. 23.

N. J., **Skillman**—Contract awarded to EDWARD F. FAY & SON, Philadelphia, Penn., for building for New Jersey State Village for Epileptics, at $150,000.

Md., **Baltimore**—Contract awarded to CONSOLIDATED ENGINEERING CO., at $160,000, for 2½-story engineering building for Johns Hopkins University.

D. C., **Washington**—Upton-Smoot Construction Co., Washington Loan and Trust Bldg., Washington, is low bidder at $50,000, for Casualty Hospital.

Va., **Lexington**—Contract for three-story brick building for Virginia Military Institute awarded to J. L. CROUSE, Greensboro, N. C., at $50,000. Noted Sept. 30.

Va., **Roanoke**—(Official)—Bids were received Oct. 8 for auditorium, armory and convention hall: C. H. Turner, $41,274; C. F. Fields, $41,840, and A. L. Marshall, $42,846. Noted Sept. 30.

Ky., **Louisville**—(Official)—Contract awarded to MODERN BUILDING CO., 519 East Broadway, Louisville, at $42,398, for alterations and additions to Central Colored High School. J. Earl Henry, Arch. Noted Sept. 30.

Ohio, **Akron**—Clemmer & Johnson Co., Hicksville, submitted lowest bid for armory. Estimated cost between $142,000 and $171,000.

Ohio, **Cleveland**—Contract awarded to C. N. GRIFFIN CO., 3111 Carnegie Ave., Cleveland, at about $215,000, for school on Elmira Ave., by Board of Education. Noted Sept. 9.

Ohio, **Cleveland**—Contract awarded to GEORGE A. RUTHERFORD CO., 2160 East 18th St., Cleveland, at about $40,000, for two-story bank building at East 79th St. and St. Clair Ave., for Garfield Savings Co. Noted Sept. 30.

Ohio, **Washington C. H.**—(Official)—Contract awarded to CULLEN & VAUGHN CO., Hamilton, by Baltimore and Ohio Western R.R. Co., for passenger station. Noted Sept. 30.

Mo., **St. Joseph**—J. W. Lehr, 1712 Frederick Ave., at $50,000, was low bidder for Physician's and Surgeon's office and store at Seventh and Francis St. Noted Oct. 7.

Tex., **Galveston**—Contract awarded to BROWN & VUILLEMIN at $100,000, for improvements and extensions to John Sealy Hospital.

Tex., **Huntsville**—Contract awarded to GOSS CONSTRUCTION CO., Waco, at $68,000, by Board of Regents of State Normal School for science building at Sam Houston Normal school.

Tex., **Laredo**—Contract awarded to LOUIS V. JAMBERS & CO., San Antonio, at $50,000, for bank building for Laredo National Bank.

Calif., **San Pedro**—Contract awarded to A. S. O'NEIL at $43,000 for high school.

Wash., **Seattle**—Contract awarded to HANS PETERSON at $130,113, for Masonic Temple at Harward Ave. and Pine St. Noted Sept. 9.

Calif., **Los Angeles**—Contract awarded to ALTA PLANING MILL CO., 830 McGarry St., at $87,000, for seven-story and basement apartment hotel at Lake and Sixth St. for James H. Edmonds, 709 Kingsley Drive.

Calif, **Maricopa**—Contract awarded to FRED GRIBBLE for high school.

Calif., **San Francisco**—Contract awarded to LINDGREN CO., at $414,000, by Board of Library Trustees for public library.

Wash., **Sedro Woolley**—(Official)—Contract awarded to WARRACK CONSTRUCTION CO., Seattle, at $134,763, for hospital buildings at Northern Hospital at Norlum, near Sedro Wolley. Noted Sept. 16.

Ont., **Windsor**—Contract awarded to P. H. SECORD & SONS, LTD., Brantford, for bank building at Ouellette Ave. and Catham St. for Merchants Bank of Canada. Estimated cost, $100,000.

SEWER SYSTEM, SOUTH BOUND BROOK, N. J.

Bids were received Oct. 11 by the Borough Council for constructing a sewer system from (A) ALLEN ENGINEERING CO., Newark (awarded contract); (B) Utility Construction Co., New Brunswick; (C) Louis J. Seiling, Red Bank; (D) D. M. Rosser, Kingston, Penn.; (E) Charles Ippolito, Oranfe; (F) Louis B. Harrison, 220 Broadway, New York, N. Y.; (G) Edward L. Bader, Atlantic City; (H) Hayman & Goodman Co., Jersey City; (I) John W. Heller, South Orange; (J) Averill-Mathews, Newark; (K) Dock Contractor Co., Hoboken. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K
2,000 lin.ft. 8-in. sewer pipe, 0-6 ft. deep	$0 50	$0 49	$0 40	$0 70	$0 49	$0 45	$0 50	$0 50	$0 60	$0 60	$1 80
11,250 lin.ft. 8-in. sewer pipe, 6-8 ft. deep	70	58	42	85	63	65	57	50	90	75	2 10
1,825 lin.ft. 8-in. sewer pipe, 8-10 ft. deep	85	62	60	1 00	93	90	83	1 40	1 20	1 00	2 40
100 lin.ft. 8-in. sewer pipe, 10-12 ft. deep	85	5	1 00	1 20	1 60	1 50	1 30	2 00	1 50	1 30	3 65
100 lin.ft. 8-in. sewer pipe, 12-14 ft. deep	90	1 35	1 50	1 65	2 50	2 00	2 60	2 40	2 00	1 70	4 30
100 lin.ft. 8-in. sewer pipe, 14 ft. deep and over	1 10	2 60	2 50	2 20	3 00	2 50	2 90	3 50	3 50	2 20	4 00
125 lin.ft. 10-in. sewer pipe, 0-6 ft. deep	55	57	44	75	61	50	63	65	75	70	2 00
225 lin.ft. 10-in. sewer pipe, 6-8 ft. deep	75	65	60	90	69	70	82	65	1 15	90	2 30
125 lin.ft. 10-in. sewer pipe, 8-10 ft. deep	85	75	80	1 25	1 16	1 00	88	1 60	1 40	1 15	2 60
125 lin.ft. 10-in. sewer pipe, 10-12 ft. deep	95	1 00	1 20	1 75	1 60	1 55	1 72	2 20	1 70	1 50	3 95
100 lin.ft. 10-in. sewer pipe, 12-14 ft. deep	1 10	1 48	1 60	2 00	2 60	2 05	2 30	2 60	2 30	2 00	4 60
25 lin.ft. 10-in. sewer pipe, 14 ft. deep and over	1 25	3 40	2 40	2 25	3 00	2 55	4 00	4 00	3 75	2 50	5 20
1,000 lin.ft. 12-in. sewer pipe, 0-6 ft. deep	65	68	50	80	73	75	69	80	1 05	80	2 10
1,100 lin.ft. 12-in. sewer pipe, 6-8 ft. deep	90	84	65	80	81	90	87	80	1 40	1 05	2 45
550 lin.ft. 12-in. sewer pipe, 8-10 ft. deep	1 25	1 06	1 00	95	1 16	1 10	1 00	1 80	1 70	1 50	2 90
460 lin.ft. 12-in. sewer pipe, 10-12 ft. deep	1 30	1 30	1 30	1 25	1 58	1 60	2 90	2 40	2 00	1 80	4 30
700 lin.ft. 12-in. sewer pipe, 12-14 ft. deep	1 60	1 58	2 00	1 75	1 90	2 50	3 60	2 70	2 50	2 30	4 90
225 lin.ft. 12-in. sewer pipe, 14-16 ft. deep	2 00	3 50	2 80	2 00	3 00	3 00	3 90	4 00	3 10	2 90	5 50
200 lin.ft. 12-in. sewer pipe, 16 ft. deep and over	2 25	3 85	3 50	2 25	3 25	4 00	4 40	4 50	4 25	3 50	6 10
72 0-8 ft. manholes	37 00	39 00	70 00	2 50	37 00	50 00	50 00	50 00	42 00	40 00	61 00
50 8-ft. manholes	3 00	5 50	7 00	45 00	4 00	5 00	7 00	3 00	5 00	5 00	6 35
2 siphon chambers	50 00	260 00	680 00	450 00	200 00	700 00	550 00	400 00	500 00	470 00	500 00
6 ton c.i. pipe	40 00	49 00	50 00	35 00	55 00	25 00	65 00	40 00	45 00	50 00	50 00
2,000 waterproof joints	20	25	15	15	15	15	14	20	20	15	18
Fill, per cu.yd.	75	85	50	1 00	1 00	1 00	1 00	75	50	30	60
200 ft. 5-in. deep holes	35	38	25	20	1 00	50	21	30	50	30	20
10 cu.yd. concrete	8 50	12 00	14 00	8 00	10 00	10 00	20 00	10 00	10 00	7 00	8 00
Sewage disposal plant (lump sum)	7,000 00	7,490 00	8,700 00	6,500 00	9,300 00	6,000 00	9,160 00	9,500 00	10,000 00	9,490 00	8,480 00
Sludge bed (lump sum)	800 00	1,000 00	1,300 00	1,500 00	525 00	4,000 00	690 00	500 00	800 00	906 00	1,220 00
Extended totals	$28,020	$28,068	$29,733	$30,633	$30,847	$32,769	$33,597	$33,447	$34,162	$38,465	$64,292

RESURFACING, NEWARK, N. J.

Bids were received Oct. 7 by the Board of Chosen Freeholders for resurfacing Sussex Ave. from Summit to Warren St. from (A) Newton Paving Co.; (B) U. T. S. Critchfield; (C) Uvalde Asphalt Co.; (D) Ralph Sangiovanni; (E) Continental Public Works Co.; (F) Union Paving Co.; (G) Standard Bitulithic Co. The item bids were as follows:

	A	B	C	D	E	F	G
21,200 sq.yd. asphalt resurfacing	$1.14	$0.99	$1.10	$1.29	$1.09	$1.04	$1.07
250 sq.yd. asphalt on old concrete	1.25	.90	1.00	1.00	1.25	1.25	1.00
150 sq.yd. brick on old concrete	2.25	.40	.75	1.50	1.40	1.25	2.00
200 lin.ft. curb 16x5 in.	.70	.70	.80	.72	.75	.75	.70
50 lin.ft. old curb	.30	.35	.30	.30	.35	.45	.30
5 basins with single inlet	100.00	60.00	80.00	85.00	85.00	85.00	95.00
6 basins with old connections	90.00	75.00	75.00	65.00	80.00	85.00	80.00
4 basins with double inlet	90.00	80.00	85.00	100.00	90.00	95.00	100.00
7,500 sq.ft. artificial stone walk	.13	.18	.20	.13	.16½	.16	.12½
Extended totals	$27,438	$23,850	$26,547	$30,172	$26,300	$25,235	$25,781

CATALOG NOTICES

Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill. General Catalog No. 110. Elevating and conveying machinery, power transmission machinery, crushers, etc. Illustrated, 576 pp., 6½x9½ in.

Alberger Pump and Condenser Co., 140 Cedar St., New York. Bulletin No. 20. Hammond water meters. Illustrated, 24 pp., 6x9 in.

The Master Builders Co., Cleveland, Ohio. Booklet Saniseal. Liquid preparation for preserving and hardening concrete floors. 8 pp., 3½x7 in.

Bolinders Co., 30 Church St., New York. Catalog No. 1700. Crude oil engines for auxiliary trading vessels. Illustrated, 16 pp., 9x12 in. Catalog in English, Swedish, German, French, Russian. Boilers, steam engines, steam turbines, oil engines, sawmill machinery, etc. Illustrated, 9x12 in.

A. S. Cameron Steam Pump Works, 11 Broadway, New York. Bulletin No. 154. Centrifugal pumps. Illustrated, 16 pp., 6x9 in.

Stephens-Adamson Mfg. Co., Aurora, Ill. Catalog No. 22. "S-A" pivoted bucket carrier. Illustrated, 84 pp., 6x9 in.

Alberger Pump & Condenser Co., 140 Cedar St., New York. Bulletin No. 21. Alberger centrifugal boiler feed pumps. Alberger-Curtis steam turbines. Illustrated, 26 pp., 6x9 in.

SKF Ball Bearing Co., 50 Church St., New York. Bulletin No. 45. SKF ball bearings for car lighting generators. Illustrated, 32 pp., 6x9 in.

PAVING, MEMPHIS, TENN.

Bids were received by the city for paving Main St. from Linden to Calhoun Ave. with wood block, from (A) Koehler Bros.-Fowler Construction Co.; (B) E. J. Wetterstrom; (C) M. E. Larkin; (D) Turner & Thomas; (E) Southern Asphalt and Construction Co.; (F) George O. White & Co.; (G) Memphis Asphalt and Paving Co.; (H) Pugh & Thompson Construction Co.; (I) Pouncey Paving and Construction Co. The item bids were as follows:

	A	B	C	D	E	E	G	H	I
9,200 sq.yd. stone block, brick, etc., removed	$0.095	$0.10	$0.08	$0.08	$0.11	$0.20	$0.10	$0.15	$0.10
128.6 lin.ft. c.i. drain boxes removed	.40	.20	.60	.08	.05	1.00	.80	.60	.50
320 lin.ft. 6x20 in. granite curb removed, shifted and set	.15	.15	.10	.12	.12	.125	.12	.25	.10
320 lin.ft. 6x20 in. granite curb removed	.09	.05	.06	.08	.09	.10	.10	.15	.10
11 solid curb corners removed	.25	1.00	.50	1.00	.50	1.00	1.00	.75	1.50
1 solid curb corner adjusted	.75	2.00	1.00	1.00	1.00	1.00	1.00	.75	1.00
9,200 sq.yd. wood block pavement	1.63	1.65	1.72	1.75	1.73	1.36	1.74	1.68	1.78
9,200 sq.yd. wood block pavement maintenance 5 years	.01	.04	.02	.02	.015	.01	.03	.01	.02
248 lin.ft. 6x20 in. granite radius corners furnished and set	.75	.65	.75	.75	.60	1.00	.75	.90	.80
240 lin.ft. 4x16 in., 10½x20 in. granite headers furnished and set	.40	.40	.40	.50	.45	.50	.45	.48	.50
1,100 cu.yd. concrete foundation bushing	4.20	3.95	4.00	3.89	4.00	6.00	4.20	4.40	4.90
4,320 sq.ft. concrete sidewalk removed	.02	.01	.02	.02	.015	.10	.02	.02	.02
4,320 sq.ft. concrete sidewalk laid	.125	.13	.12	.11	.14	.10	.12	.125	.12
735 lin.ft. 18 in. drain pipe laid	.40	.70	.45	.35	.40	.50	.60	.55	.80
100 lin.ft. 15 in. drain pipe laid	.40	.60	.30	.35	.30	.40	.45	.55	.75
1 inlet reconstructed	20.00	15.00	20.00	15.00	20.00	70.00	10.00	22.50	10.00
8 No. 7 inlets	20.00	17.00	19.00	20.00	20.00	30.00	20.00	22.50	18.00
2 man holes	22.00	30.00	25.00	22.50	22.50	30.00	20.00	20.00	20.00
Extended totals	$22,204	$22,563	$22,748	$22,765	$23,011	$23,226	$23,604	$23,649	$24,796

TEMPLE, HILLCREST, LORETTE AND ELGIN ST. SEWERS —BOSTON, MASS.

✚Bids were received June 15 by Patrick O'Hearn, Acting Comr. of Pub. Wks., for the construction of sewers in Temple, Hillcrest, Lorette and Elgin St., from: (A) M. Meehan, (B) A. CEFALO (awarded contract), (C) A. Baruffaldi, (D) West Roxbury Trap Rock Co., (E) Merrimac Construction Co., (F) W. Barrett & Co., (G) McCarthy & Welch, (H) Bruno & Petretti, (I) Coleman Bros., (J) Engineer's Estimate. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
493 lin.ft. 18-in. double strength pipe sewer	$3.50	$3.00	$3.80	$6.00	$4.10	$2.75	$6.27	$4.00	$5.00	$4.50
525 lin.ft. 15-in. pipe sewer	.75	.70	1.00	1.00	1.25	1.20	2.52	2.00	2.80	1.20
438 lin.ft. pipe sewers and 431 lin.ft. 2-ft., 3-in. circular concrete surface drain and removal of old sewer	2.33	2.40	3.00	2.50	3.00	3.41	4.77	4.00	2.00	2.85
1020 lin.ft. 8-in. pipe sewer, 379 lin.ft. of 18-in. double strength, 302 lin. ft. of 13-in. pipe and 151 lin.ft. of 12-in. pipe and 292 lin.ft. of 10-in. pipe surface drain	1.00	1.40	1.80	2.00	2.10	2.50	2.62	3.00	3.40	1.65
199 lin.ft. 15-in. pipe surface drain	.70	.70	1.35	.90	1.00	1.25	2.27	1.00	2.00	.80
220 lin.ft. 12-in. pipe surface drain	.60	.70	1.00	.85	.90	1.15	2.00	1.00	2.00	.70
840 lin.ft. 10-in. pipe surface drain	.50	.50	1.50	.75	.90	1.00	2.00	.90	2.00	.65
322 lin.ft. 6-ft. circular concrete conduit	6.00	3.75	15.50	10.00	4.40	5.25	7.77	6.00	9.00	4.50
128 lin.ft. 5 ft. 3-in. circular concrete conduit and 121 lin.ft. 18-in. double strength pipe sewer	8.40	5.25	8.00	13.00	7.00	7.75	10.00	8.00	9.00	6.65
390 lin.ft. 5-ft. circular concrete conduit and 21 lin.ft. 18-in. double strength and 369 lin.ft. pipe sewer	8.40	5.00	6.00	7.50	6.70	7.75	9.50	8.00	9.50	6.30
501 lin.ft. 4 ft. 3-in. circular concrete conduit, 462 lin.ft. and 30 lin. ft. of 12-in. pipe sewer	3.60	2.25	3.50	3.00	3.75	3.15	4.77	5.00	4.00	2.50
229 lin.ft. 3-ft., 9-in. circular concrete conduit, 247 lin.ft. 12-in. pipe sewer	2.60	2.50	3.50	3.00	3.00	3.15	5.00	6.00	4.00	3.40
715 lin.ft. 3-ft., 6-in. circular concrete conduit, 727 lin.ft. 12-in. pipe sewer	5.00	4.50	6.50	4.25	6.75	6.15	10.00	8.00	6.00	6.60
500 cu.yd. earth excavation below grade		3.00	.01	3.00	1.50	1.50	1.50	1.00	2.00	1.25
100 cu.yd. earth excavation above grade in outside trench	1.00		.01	.50	.75	1.25	1.00	.75	1.00	1.00
2300 cu.yd. rock		6.00	.01	5.00	4.00	4.00		3.00	3.00	5.00
600 cu.yd. gravel refill	1.00		.01	2.00	.50	1.75	1.25	1.00	.90	1.40
175 M ft. b.m. spruce lumber for sheeting	16.00		25.00	.01	40.00	25.00	24.00	20.00	20.00	27.00
40 M ft. b.m. 2-in. planed and matched sheeting	35.00	40.00	.01	50.00		30.00		25.00	40.00	40.00
25 M ft. b.m. 3-in. planed Georgia pine	35.00		.01	.01		35.00		25.00	40.00	50.00
16 M ft. b.m. spruce lumber for platforms	35.00		.01	.01	10.00	25.00		40.00	40.00	40.00
5400 lin.ft. pipe under drain	.60	.25	.25	.10	.15	.25	.15	.75	.20	.15
4000 cu.yd. class A concrete	7.00	6.50	7.00	6.00	6.50	7.00	6.85	7.00	7.00	7.50
300 lin.ft. 10-in. pipe catch basins drain	.50	.50	.50	.50	.60	.75	.75	1.00	1.00	.10
1600 lin.ft. 6-in. pipe for chimneys	.25	.10	.10	.05	.10	.10	.15	.05	.10	.15
300 lin.ft. 6-in. pipe house drain in main trench	1.00	.25	.01	1.00	.10	.25	.20	.60	.75	.25
26 lin.ft. 6-in. pipe house drain	2.00	.50	.01	.50	1.50	1.00		.60	.75	.60
250 lin.ft. house drain relaid	1.00	.50	.01	1.00	.50	1.00	1.00	.60	1.00	.60
330 slants in new masonry	.05	.10	.01	.10	.05	.10	.10	.10	.10	.15
70 lin.ft. 8 and 10-in. pipe sewer connected	1.00	.50	.01	.50	.25	1.00	1.00	.75	1.00	.25
22 manholes in sewer	45.00	40.00	50.00	50.00	60.00	35.00	75.00	35.00	.75	45.00
30 manholes on surface drain	45.00	35.00	40.00	50.00	35.00	30.00	40.00	35.00	.60	36.00
6 special manholes on sewer	50.00	70.00	60.00	50.00	65.00	35.00	100.00	35.00	125.00	85.00
4 special manholes on surface drain	50.00	75.00	50.00	50.00	45.00	35.00	100.00	35.00	110.00	75.00
20 catch basins	45.00	45.00	50.00	50.00	45.00	50.00	50.00	40.00	50.00	50.00
1 armhole invert rebuilt	40.00	5.00	.01	5.00	10.00	10.00	5.00	40.00	20.00	5.00
10 cu.yd. other brick masonry	18.00		.01	.01		15.00	14.00	15.00	16.00	14.00
1 connection between new and existing conduit	20.00	10.00	19.00	10.00	10.00	10.00	10.00	5.00	15.00	10.00
1 cradle for pipe not exceeding 16-in. diam.		10.00	10.00	5.00	10.00	5.00		10.00	40.00	10.00
1 cradle for pipe exceeding 16-in. diam.		10.00	10.00	5.00	10.00	5.00		10.00	40.00	10.00
ffiiiffl, strength pipe at % discount	75%	78%	75%	75%	72%	70%	73%	75%	63%	70%
$2400 list value double strength pipe at % discount	70%	65%	75%	65%	60%	60%	66%	70%	57%	y5%
100 lin.ft. of 10-in., 30-in. pipe for brook construction and setting grates	3.00	.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.50
Extended totals	$70,358	$70,252	$72,457	$76,429	$79,250	$82,562	$82,807	$83,612	$88,661	$85,153

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Milford, Attleboro & Woonsocket St. Ry. asked City Council, Franklin, for franchise for relocation of tracks on Central St. H. C. Page, Worcester, Gen. Mgr.

Rhode Island—Rhode Island Co. asked City Council, Pawtucket, for franchise to relocate tracks and lay additional tracks on Broad St. from Exchange St. to Miller St. Howard Elliott, Boston, Mass., Pres. and Gen. Mgr.

New York—International Ry. Co. plans new electric line from Buffalo to Niagara Falls. H. J. Mack, Supt. and J. C. Sheldon, Buffalo, Pur. Agt.

New York—City Council, Utica, granted 50-year franchise to New York State Ry. for extension of line on Elm St. to Neilson St. via James St. B. E. Tilton, Utica, Gen. Mgr. Noted Sept. 16.

Pennsylvania—Press reports state that an electric railway will be constructed from Columbus to Mayville, C. E. Bentley, Jamestown, N. Y., Engr.

Pennsylvania—Project to construct an electric-railway from Milford northeast to Port Jervis, about eight miles, is being revived. Gifford Pinchot, Milford, interested.

Pennsylvania—Mahoning & Shenango Ry. & Light Co. plans to construct an extension of its lines from Beaver Falls to Newcastle, Ohio. G. J. A. Paul, Youngstown, Ry. Mgr.

Pennsylvania—Pottsville & St. Clair Electric Ry., recently incorporated, will construct a railway from Pottsville to St. Clair. W. B. Rockwell, Pres.

Pennsylvania—South Mountain St. Ry. recently incorporated, will apply for charter for electric railway from Kleinfeltersville to Womelsdorf.

West Virginia—Surveys being made for branch line of Western Maryland R.R. from Wyatt to Bingamon Creek to carry coal.

North Carolina—Rutherford Interurban Ry. Co., recently incorporated, plans line from Atlantic coast to Ashville and state line.

North Carolina—Board of Trade, Louisburg, contemplates line from Louisburg to connect with Atlantic Coast Line R.R., about 35 miles. F. A. Turner, Louisburg, interested.

Florida—Atlantic Coast Line R.R. contemplates extension of line from Sebring to Immokalee, via Ft. Thompson, about 80 miles. E. B. Pleasants, Wilmington, N. C., Ch. Engr.

Tennessee—Illinois Central R.R. plans extension and improvement of yards and roundhouse at Jackson. A. S. Baldwin, Chicago, Ill., Ch. Engr. Estimated cost, $150,000.

Tennessee—Central Power Co., Chattanooga, recently incorporated with $50,000 capital, will build line from Chattanoogo to Cleveland, Tenn., about 25 miles. G. B. Adams, interested.

Ohio—Cleveland Ry. granted franchise for electric-railway through Parma Township to Bean Rd. G. L. Radcliffe, Cleveland, Gen. Mgr.

Ohio—East Linden Electric Ry. Co. granted franchise by City Council, Columbus, for construction of two new lines. Noted Oct. 21.

Indiana—City Council, Rockport, granted franchise to Evansville Ry. Co. for line on Washington St. to bank of Ohio River. W. A. Carson, Evansville, Gen. Mgr. and Pur. Agt.

Illinois—John E. Melick interested in railroad between Pearl and Kampsville, 11 miles. Surveys being made.

Illinois—Plans being considered for electric railway from Moline to Coal Valley, about six miles. Estimated cost, $60,000.

Minnesota—Duluth & Northern Minnesota Ry. will extend its line to Knife River, Minn. John Millen, Duluth, Pres. and Gen. Mgr.

Montana—Northern Pacific Ry. contemplates spur to mines of Iron Mountain and Iron Mountain Tunnel Co. F. G. Prest, St. Paul, Minn., Pur. Agt.

Missouri—Kansas City, Mexico & Orient Ry. plans to start work soon on proposed new extension, also contemplates improving line south of Wichita. H. B. Holmes, Kansas City, Res. Engr.

Missouri—United Rys. Co. plans to improve street car lines in downtown district of St. Louis. Estimated cost, $125,000. C. O. Jenks, Portland, Ore., Gen. Mgr.

Texas—San Antonio & Austin Interurban has revived plans to construct interurban electric-railway between San Antonio and Austin, about 80 miles. Proposed railway will pass through New Braunfels, Hunter, San Marcos, Kyle, Buda and Manchaca.

Washington—Everett Ry. Light & Water Co., received petition from Riverside Commercial Club for extension of its lines on Riverside Ave. L. Skipwith, New York, N. Y., Pur. Agt.

Oregon—Robert E. Strahorn, Portland, interested in company to build railway from Bend to Klamath Falls, via Silver Lake, from Silver Lake to Lake View and from Ben to connection with Oregon-Washington Ry. & Navigation Co., about 400 miles.

California—City Ry. received franchise from City Council, Los Angeles, for line on South Park Ave. from 13th St. to Slauson Ave.

California—Bids will be received by Board of Public Works until Nov. 10 for railway from Rosasco into Hetch Hetchy reservoir, about 67 miles. M. M. O'Shaughnessy, City Engr. Noted Oct. 7.

Alaska—It is reported that at next session of congress appropriation of $10,000,000 will be asked for continuing construction of Government Alaska R.R.

Bids In and Contracts Awarded

Indiana—Lafayette & Northeastern Traction Co. has awarded the contract for a railway from Lafayette to Kankakee, Ill., to M. A. TALBERT CO.

Minnesota—Contract awarded to CHARLES MAGNUSON by Duluth & Iron Range R.R. Co. for four miles of spur track to Winton.

Oklahoma—Press reports state contract awarded to AR. BUCKLE CONSTRUCTION & IMPROVEMENT CO., Arbuckle, Okla., for 176 miles of line for Southern Light, Power & Ry. Co.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Southwick—Southwick Electric Co. plans to construct a power house and install a 100-hp. engine.

R. I., Providence—Narragansett Electric Lighting Co. will build new sub-station on Admiral St.

N. Y., Buffalo—(Official)—Bids will be received until 2:30 p.m., Nov. 5, by State Hospital Commission, Capitol, Albany, for additional boiler capacity, heating work at Buffalo State Hospital. E. S. Elwood, Secy., State Hospital Comn. (See adv.) Noted Sept. 16.

Penn., Philadelphia—Misericordia Hospital plans to build power plant at 53rd St. and Cedar Ave.

Md., Baltimore—Board of Estimate authorized H. K. McCay, Harbor Engr., to prepare plans for hydro-electric plant at Jones' Falls to supply electricity for lighting the city.

N. C., Hickory—City Council rejected all bids for 30-year franchise to operate electric-light and power and fuel and heating plant. New bids will be received. Noted Sept. 9.

Miss., Carriere—Electric-light plant of Lacey Lumber Co., recently destroyed by fire, will be rebuilt.

Wis., Medford—Medford Light & Power Co. plans to extend and improve its plant.

Wis., Mineral Point—Mineral Point Public Service Co. granted permission to issue $50,000 capital stock. Proceeds will be used for improving and extending lighting and heating system.

Wis., Stevens Point—Bids will be received by William Kittle, Secy., Bd. of Normal Regents, Madison, until 10.30 a.m., Oct. 30, for electric wiring of main building and wing of State Normal School.

Iowa, Nashua—Cedar Valley Electric Co. has purchased present power site and plans to rebuild old dam with concrete. Company recently granted 25-year franchise.

Iowa, Waverly—Application made by Cedar Valley Hydraulic Co. for franchise to construct poles for light, power and heating purposes.

Minn., Ely—See item under "Water Supply."

S. D., Emery—Franchise granted to Brady Electric Co. to install and operate electric-light plant.

N. D., Glenburn—M. Thayer granted franchise for electric-light plant.

Mo., Steelville—Steelville Electric-Light & Power Co. applied to Public Service Commission for permission to construct electric-light plant. Estimated cost, $10,000.

Tex., Decatur—See item under "Water Works."

Tex., Gatesville—An expenditure of $10,000 approved by A. Ferguson, Governor, for heating and power plant at State Training School for Boys.

Okla., Paden—Election will be held Nov. 23 to vote to grant franchise to A. G. Rogers and W. E. Davis for electric-light plant.

Colo., Alamosa—Colorado Power Co. plans an expenditure of $20,000 for improving its plant.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Bronx)—(Official)—Lowest bid for installing electric equipment in Evander Childs high school at East 184th St. and Field Pl. submitted by Jandous Electric Equipment Co., 109 West 31st St., at $25,110.

N. J., Newark—Contract for heating system for Milford School awarded to J. F. KELLY, at $20,888.

Del., Milton—Contract for municipal electric-light plant awarded to W. W. CONWELL at $8,600.

N. C., Lumberton—Contract for improving municipal electric-light system awarded to TUCKER & LAXTON, Charlotte. Noted Sept. 30.

Ohio, Youngstown—Contract for new building for Mahoning County Light Co. awarded to HELLER BROS. CO.

Mich., Ishpeming—Contract for power house in North Lake District for Cleveland Cliffs Iron Co. awarded to LOUIS ERICKSON & SON.

Iowa, Luverne—Contract for transmission line from Luverne to Livermore awarded to McCONNELL-LANFORD ELECTRIC CO., Boone, at $7,918. Noted Sept. 23.

Kan., Paola—Contract for heating plant at Ursuline Academy awarded to F. M. SPENCER & SON, at $79,000.

BRIDGES

Proposed Work

R. I., Woonsocket—Bids being received by F. A. Mills, City Engr., for three reinforced-concrete bridges. Estimated cost, $60,000.

N. Y., Hanover—City plans an expenditure of $7,000 for bridge over Silver Creek at Howard St.

N. Y., Scarsdale—Village will build bridge over tracks of New York Central R.R. at Popham Rd. Plans approved by Public Service Commission.

N. J., South Orange—Bids will be received by Walter A. Evans, Chn., Eighth District Bridge Comn., Bd. of Chosen Freeholders of Essex County, Newark, until Nov. 1, for bridge on Pierson Rd. over east branch of Rahway River, South Orange Township.

Penn., Butler—Willis Whited, Bridge Designer, State Highway Dept., Harrisburg, will prepare plans for overhead bridge at foot of Main St. Estimated cost, $50,000.

Penn., Johnstown—(Official)—Bids will be received until 11 a.m., Nov. 6, for Horner St. Bridge. Estimated cost, $50,000. G. A. Flink, Harrisburg, Penn., Engr. Noted Aug. 19.

W. Va., Huntington—Huntington-Chesapeake Bridge Co., recently incorporated, will build bridge across Ohio River from Huntington to Chesapeake, Ohio. J. C. Miller and Thomas W. Harvey, Huntington, interested.

Ga., Roswell—Plans being considered for steel bridge over Chattahoochee River. Estimated cost, $6,000.

Fla., Tampa—Bids will be received by W. P. Culbreath, Clk., County Comrs., until Nov. 26, for bridge over Little Manatee River.

Fla., Tavares—See item under "Streets and Roads."

Miss., Durant—Bids will soon be received by Board of Supervisors of Holmes County, Lexington, for steel bridge over Bowles Creek, near Durant.

Miss., Grenada—Bids will be received by John S. King, Clk., Bd. of Superv., until Nov. 1, for steel bridge across Long Creek District No. 4.

Miss., Natchez—Bridge will be constructed over Homochitto River by Board of Supervisors of Franklin County. Estimated cost, $6,000.

La., New Orleans—Bids will be received until Nov. 16 by A. J. Ricks, Comr., Dept. of Pub. Finances, Accounting Div., for viaduct at West End Lake Shore Park.

Tenn., Selmer—Appropriation of $5,050 made by County Court for eight steel bridges.

Ohio, Cleveland—Bids will be received until 10 a.m., Nov. 3, by E. G. Krause, Clk., Cuyahoga County Commissioners, for bridge work under report No. 3629. W. A. Stinchcomb, County Engr.

Ind., Liberty—(Official)—Bids will be received by G. W. Wray, Audr., Comrs. of Union County, until 2 p. m., Nov. 1, for two concrete bridges.

Minn., Red Wing—Plans being considered by city and county for bridge across Mississippi River at Red Wing and filling in channel and constructing hard road.

Kan., Kansas City—Commissioners appointed by Commercial Club of Kansas City have not decided on character of approaches for bridge over Kaw River. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., Engr. Noted Sept. 2.

Kan., Kansas City—Bids will soon be received by County Commissioners of Wyandotte County for bridge in Central Ave.

Kan, Lawrence—Bids will be received by Clerk of Douglas County until noon, Nov. 6, for bridge on county line between Douglas and Franklin Counties.

Mo., Joplin—Plans being considered for viaduct over tracks of St. Louis & San Francisco R.R. on Kentucky Ave. J. B. Hodgden, Comr. of Streets.

Tex., Orange—See item under "Streets and Roads."

Tex., Waco—(Official)—Citizens defeated $10,000 bonds for bridges. Noted Sept. 20.

Okla., Oklahoma—Resolution passed by County Commissioners authorizing construction of a number of bridges. Estimated cost, $11,897.

Colo., Denver—Plans approved for reinforced-concrete bridge across Huerfano River north of Walsenburg. Estimated cost, $13,000.

Idaho, Harrison—City has retained A. L. Jaqueth, Great Falls, Mont., to estimate cost of concrete structure across Coeur d'Alene River to replace wooden trestle.

Calif., Cardiff—Plans being completed by J. Butler, County Surveyor for reinforced-concrete bridge on State Highway near Cardiff. Estimated cost, $10,000.

Calif., Richmond—Plans prepared for steel viaduct over Atchison, Topeka & Santa Fe Ry. at 16th St. Estimated cost, $10,000.

China—(Official)—Bids will be received until 9 a.m., Dec. 7 by Robert W. Hunt & Co., Monongahela Bank Bldg., Pittsburgh, Penn., for steel bridgework for Canton-Hankow Ry., Hupei-Hunan Section. Noted Aug. 19. (See adv.)

Bids In and Contracts Awarded

Mass., Nantucket—Bids were received by Massachusetts Highway Commission for pile bridge at Nantucket from Frank C. Taylor, 170 Kempton St., New Bedford, $12,765, and W. H. Ellis & Son Co., East Boston, $17,500.

Mass., Oak Bluffs—All bids received by State Highway Commission, 15 Ashburton Pl., Boston, for bridge and approaches at Oak Bluffs and Edgartown rejected.

N. Y., Lyons Falls—(Official)—Contract awarded to W. S. RAE, Amsterdam, for completing bridge over Blank and Moose Rivers. Estimated cost, $59,385. Noted Oct. 14.

N. J., Paterson—Contract for widening Hope Ave. Bridge awarded to JOHN WHERLÆ, Jr., at $4,098. Noted Oct. 7.

Penn., Philadelphia—Philadelphia & Reading Ry. awarded contracts for bridge work as follows: Contract 1, bridge abutment and removal of core to C. P. BOWER, Philadelphia, at $32,915; Contract 2, superstructure to AMERICAN BRIDGE CO., Philadelphia, $28,415; Contract 3, waterproofing bridge to BARBER ASPHALT PAVING CO., Philadelphia, at $2,288.

Fla., Daytona—(Official)—Contract for steel work for highway drawbridge across St. Johns River between Volusia and Seminole Counties awarded to VIRGINIA BRIDGE & IRON CO., Roanoke, Va., approaches and foundations to BEASLEY CONTRACTING CO., Savannah, Ga. Atlantic Engineering Co., Savannah, Ga., Engr.

Ind., Bedford—See item under "Streets and Roads."

Iowa, Clinton—Contract for six wooden bridges awarded to BUTTERFIELD & MITCHELL.

Iowa, Waukon—Contract for steel superstructures for two bridges awarded to CLINTON BRIDGE CO., at $11,867. Noted Oct. 7.

Minn., Breckenridge—Contract for six steel culverts and 11 steel bridges awarded to T. GLEASON, Minneapolis. Noted Sept. 30.

Mo., St. Louis—Bids were received for Chouteau Ave. viaduct as follows: Frank C. Mueller & Co., $131,939; Hanick Quarry & Construction Co., $137,471; Heman Construction Co., $141,270. Noted Oct. 7.

WATER WORKS

Proposed Work

Maine, Anson—Installation of water system postponed indefinitely. Estimated cost, $120,000. G. H. Viles, Clk., Bd. of Comrs. Noted Aug. 5.

Mass, Lynn—(Official)—Bids will be received until 10:30 a.m., Nov. 9, by Thomas Campbell, 2d, Comr. of Water and Water-Works for Ipswich River pumping station. Noted Oct. 21. (See adv.)

N. Y., Buffalo—Bids will be received until Oct. 30 by Francis G. Ward, Comr. Pub. Wks., for 12-in. high pressure pipe line from Main and Perry St. to the Terrace.

N. Y., Ilion—City postponed awarding of contract for filtration plant and pipe line until 1916. Estimated cost, $80,000. C. C. Hopkins, Rochester, N. Y., Engr. Noted Oct. 14.

N. Y., LeRoy—Bids will be received until Nov. 3 by Board of Water and Light Commissioners for 125,000-gal. tank. James P. Wells, LeRoy, Consult. Engr.

Penn., Charleroi—(Official)—Tri-Cities Water Co. retained Chester & Fleming, Hydraulic Engr., to prepare plans for reinforced-concrete settling basin at filtration plant.

Penn., Johnstown—Johnstown Water Co. plans $75,000 bond issue for additions to its plant. Noted Aug. 19.

Penn., Tamaqua—(Official)—All bids received Oct. 5 for reservoir in Owl Creek rejected. New bids will be received. Noted Aug. 12 and Oct. 21.

Penn., West Leesport—Election will be held Nov. 2 to vote on $11,000 bonds for water system.

Va., Blackstone—Water works and electric light plant will be rebuilt, according to press reports.

Va., Waverly—Election will be held to vote on $55,000 bonds. Part of proceeds will be used for water system.

W. Va., Huntington—Application made to State Public Utilities Commission for reduction in water rates. If request is not granted municipal water system will be constructed.

N. C., Durham—Bonds for $250,000 for water system will be sold Nov. 10. Noted Oct. 21.

Fla., Jacksonville—Bids will be received until Nov. 8 by F. W. Bruce, Ch. Engr. Port Comrs., for 50,000-gal. water tank at Municipal Terminals.

Fla., St. Augustine—S. G. Pollard, 3422 Burch Ave., Cincinnati, Ohio, retained by city to investigate water system.

Fla., St. Cloud—City plans to install water system.

Ala., Florence—Election will be held Nov. 15 to vote on $210,000 bonds for purchase and improvement of water system and installation of filtration plant. Noted Oct. 21.

La., Independence—City plans water works. Xavier A. Kramer, Magnolia, Miss., Engr. Estimated cost, $30,000.

La., Oakdale—(Official)—We have been advised bids will not be received for water system till 1916. Estimated cost, $25,000. R. E. Ricketts, City Secy. Noted Oct. 14.

Ky., Flemingsburg—City Council plans survey for water system.

Ky., Williamsburg—Election will be held Nov. 2 to vote on $25,000 bonds for water system.

Ohio, Barnesville—At November election citizens will vote on additional levy for improving water system, including filtration plant and standpipe.

Ohio, Byesville—Election will be held Nov. 2 to vote on $40,000 bonds for water system. Noted Sept. 30.

Ohio, Columbus—Bids will be received until Nov. 11 by Ohio Board of Administration, Oak and Ninth St., for water softening equipment for Institute for Feeble Minded. A. F. Shepherd, Pres.

Ohio, Lima—Investigation of better water supply being made for city.

Ohio, Middletown—S. G. Pollard, 3422 Burch Ave., Cincinnati, preparing plans for improvements to water system.

Ohio, Warren—(Official)—Local Public Service Corporation retained Chester & Fleming, Hydraulic Engr., Pittsburgh, Penn., to prepare plans for improvements to filtration plant.

Ohio, Zanesville—City Council contemplates relining and enlarging two reservoirs. Estimated cost, $25,000.

Mich., Birmingham—City voted bonds for water main extensions.

Mich., Hancock—Plans prepared by City Engineer for water mains in Lake St. and Hancock Ave. accepted by City Council.

Ill., Elmhurst—(Official)—Bids will be received until 7:30 p.m., Nov. 3, by City Council for tower, pumping station, tank, reservoir and well house. Arthur H. Kochasky, City Clk. (See adv.)

Ill., Wheaton—(Official)—Election will be held Nov. 12 to vote $35,000 bonds for improving and enlarging water system. Noted Oct. 21.

Iowa, Germania—Bids will be received until Oct. 29 by M. H. Stoddard, Town Clk., for laying water mains and constructing water system. Noted Aug. 12.

Minn., Ely—Citizens voted $40,000 bonds for improvements to water system and electric-light plant. Noted Sept. 30.

Minn., Virginia—City plans improvement of water system in spring. Estimated cost, $50,000.

Minn., Worthington—Bonds for $10,000 voted by citizens for extension of water and system.

Kan., Caldwell—State Board of Health ordered installation of water system by July, 1916.

Kan., Caney—City ordered to install water system by July, 1916 by State Board of Health.

Kan., Cedarville—State Board of Health has ordered installation of water system by July, 1916.

Kan., La Harpe—State Board of Health ordered installation of water system by July, 1916.

Kan., Manhattan—City plans an expenditure of $72,600 for improving water system.

Kan., Marion—State Board of Health ordered installation of water system by January, 1917.

Kan., Morrill—(Official)—We have been informed that citizens did not vote $10,000 bonds for water system as stated in our issue of Oct. 21. M. Lichty, City Clk. Noted Oct. 21.

Kan., Paola—City ordered to install water works by July, 1916 by State Board of Health.

Wyo., Thermopolis—(Official)—Citizens voted $40,000 bonds for extending water system. Noted Oct. 14.

Ark., Heber Springs—Bonds for $90,000 for water and sewerage system will be sold. R. D. Alexander, Oklahoma City, Okla., Engr. Noted Sept. 2.

Ark., Tillar—City contemplates new well for additional water supply. Peter Sain, Mayor.

Tex., Decatur—City plans to improve water system and electric-light plant. Estimated cost, $10,000.

Tex., Seadrift—A. Landa, Victoria, presented proposition to Commercial Club for municipal water system. A. D. Powers, Seadrift, interested.

Tex., Timpson—City plans municipal water system.

Colo., Akron—(Official)—Citizens voted $20,000 bonds for water system. Noted Oct. 7.

Idaho, Council—Bids will be received by City Clerk until Nov. 5 for water system. Estimated cost, $20,000. Noted Sept. 30.

Wash., Lakewood—Town Council contemplates municipal water system. Estimated cost, $10,000.

Ore., Baker—Citizens voted $110,000 bonds for improving municipal water system. Noted Sept. 23 and Oct. 7.

Que., Lennoxville—(Official)—Bids will be received some time next year for improving and extending water system. Noted Oct. 14.

Ont., Brockville—Bids will soon be received for filtration plant. G. W. Bryson, Engr.

Bids In and Contracts Awarded

Mass., Boston—(Dorchester and Roxbury)—(Official)—Contract awarded to JOHN GUARENO, 45 Brook Ave., Roxbury, at $10,316, for laying water mains. Noted Oct. 21.

Mass., Salem—(Official) — Contract for intake and gate house at Wenham Lake awarded to BAY STATE DREDGING & CONTRACTING CO., Boston, at $13,800. Noted Oct. 21.

N. Y., Hudson—(Official)—Work of laying new water mains will be done by Commission of Public Works under supervision of M. J. O'Hara, City Engr. Noted Oct. 21.

N. Y., New York—(Official)—Northeastern Construction Co., 225 Fifth Ave., New York, submitted lowest bid for two steel frame buildings for drainage chambers, Shafts 11 and 21, Catskill Aqueduct, under Contract No. 166. Noted Oct. 7.

Penn., Contesville—Contract for high service system awarded to PARTRIDGE & BURKE, Hohokus, N. J., at $23,834. Noted Sept. 23.

N. C., Lumberton—Contract for filtration plant at municipal water system awarded to TUCKER & LAXTON, Charlotte. Noted Sept. 23.

N. C., Mt. Olive—Contract for two miles of water main awarded to MOREHEAD CITY PLUMBING CO., at about $10,000.

Tenn., Columbia—Contract for filtration plant awarded to INTERNATIONAL FILTRATION CO., Chicago, Ill. Noted Aug. 12.

Ohio, Cincinnati—Contract awarded to U. S. CAST IRON PIPE & FOUNDRY CO., at $34,807, for pipe and castings.

Ind., Miller—(Official)—Contracts for water system awarded as follows: General construction to SHEA & CO., pipe to NATIONAL TUBE CO., tank to CHICAGO BRIDGE & IRON CO. Estimated cost, $14,000. Noted Sept. 30.

Ill., Poplar Grove—Contracts for water system awarded as follows: 5,000 ft. of 4-in. pipe line to ERNEST RIES, Woodstock; pump to FAIRBANKS, MORSE & CO., Chicago, Ill. Noted Oct. 7.

Ill., Quincy—(Official)—Contract for intake pipe line awarded to JOSEPH G. FALCON, 818 Reba Pl., Evanston, by Citizens Water Works Co.

Kan., Kansas City—Contract for improving Quindaro pumping station awarded to COLUMBIAN STEEL TANK CO., 1605 West 12th St., Kansas City, at $4,000.

Kan., Manhattan—City will make improvements to water system by day labor. Noted Act. 28.

Tex., Galveston—Major & Seagraves, at $13,411, submitted lowest bid for reconstructing 36-in. submerged water main Noted Sept. 23 and Oct. 7.

Ore., Amity—J. P. O'Neill, 1175 Burrace St., Portland, low bidder at $11,000 for steel and $9,777 for wood, for water works. Noted Sept. 30.

Calif., Los Angeles—Bids were received by Board of Public Service Commissioners for furnishing 1397 tons of water pipe as follows: American Cast Iron Pipe Co., $31.50 per ton at San Pedro and $32.30 per ton at Los Angeles; Hunter Brockerage Co., $29.15 per ton at San Pedro and $29.95 at Los Angeles; U. S. Cast Iron Pipe & Foundry Co., $30.90 at San Pedro and $31.70 and $33.70 at Los Angeles.

Ont., Lambeth—Contracts for water system awarded as follows: Contract A and B to LONDON FOUNDRY CO., 369 Thames St., London; contract C and D to EWALTER ENGINEERING CO., Middlemarch; waterpipe to GARTSHORE-THOMSON PIPE CO., Stuart St., West Hamilton; elevated steam tank, DES MOINES BRIDGE & IRON CO., Pittsburgh, Penn.; concrete reservoir to E. W. KELLEY, Lambeth.

Ont., Mimico—See item under "Sewers."

SEWERS

Proposed Work

Mass., Fairhaven—Sewer will be built through Rogers estate. Estimated cost, $6,500.

Mass., Haverhill—L. C. Lawton, City Engr., submitted report estimating cost of trunk sewer through North Ave. from head of Marsh Ave. to a point near Snows Brook to Primrose St. at $13,400.

R. I., Woonsocket—Bids will be received until Nov. 3 by Board of Aldermen for surface water drain in Carrington Ave. and Maple St. Frank H. Mills, City Engr.

Conn., Manchester—Appropriation of $12,000 made for storm water sewers. J. Frank Bowen, South Manchester, City Engr.

Conn., Wilson—Plans being considered for improving sewer system. Estimated cost, $12,000.

N. Y., Canadaigua—Plans being prepared by L. P. Adams, Arch., Masonic Temple Bldg., Geneva, for sewage disposal plant between Geneva and Canadaigua for Ontario County Almshouse.

N. Y., Greenwich—(Official)—Bids will be received until 2 p.m., Nov. 1, by Board of Trustees for sewers in Elm Ave., Main and Bridge St. Charles E. Perry, 36 State St., Albany, Engr. Noted Oct. 21. (See adv.)

N. Y., New Rochelle—Board of Estimate authorized $7,500 bond issue for sewer at Upton Park.

N. Y., Niagara Falls—Board of Public Works recommended sewers in New York Ave. from Highland Ave. to Sugar St. Estimated cost, $16,000.

N. Y., Yorktown—Bids will be received until Nov. 9 by State Hospital Commission, Capital, Albany, for sewers and sewage-disposal plant at Mahansic State Hospital, Yorktown. Noted Oct. 21.

N. J., Atlantic Highlands—(Official)—Bids will be received until 8 p.m., Nov. 3, by Mayor and Council for 2¼ miles of 8- to 10-in. sewer. W. T. Franklin, Borough Clk. H. O. Todd, Borough Engr. Noted Aug. 12. (See adv.)

N. J., Hoboken—Bids will soon be received for two-trunk sewerage system. Estimated cost, $500,000. James Fuertes, 132 Nassau St., New York, N. Y., Engr.

Penn., Allentown—C. D. Weirbach, City Engr., estimated cost of sewer system with disposal plant on Kline's Island at $1,318,250. Noted Sept. 9.

Penn., Columbia—Election will be held Nov. 2 to vote on $100,000 bonds for sewer system.

Penn., Pittsburgh—Bids will be received until Oct. 29 by City Controller for sewers in portions of various streets.

Penn., Punxsutawney—Application of borough for sewer system approved by State Department of Health.

Penn., Scranton—Samuel G. Dixon, State Comr. of Health, has plans for comprehensive sewer system. Estimated cost, $5,000,000.

Penn., Waynesboro — City Council will build concrete sewer.

Va., Hampton—Citizens contemplate bond election for rebuilding sewer system.

Va., Waverly—Election will be held to vote on $55,000 bonds. Part of proceeds will be used for sewage-disposal plant.

W. Va., Ceredo—Election will be held Nov. 6 to vote on $55,000 bonds for sewer system.

Fla., Jacksonville—Bids will be received by George M. Powell, Chn., until Nov. 4, to furnish and place about 40 piles with c.-i. cradle and removal and delivery to City Property Yard of about 371-ft. c.-i. pipe, also for 484-ft. of 8-in. c.-i. sewer pipe.

Fla., Miami—Bids will be received until Nov. 4 by B. H. Klyce, City Engr., for centrifugal pumps and electric motor for sewage pumping station at Riverside. Noted Sept. 23.

Fla., St. Cloud—City plans to install sewer system. Fred B. Kenney, City Clk.

Ohio, Findlay—(Official)—Sewer on Chamberlain Hill in South Findlay will not be constructed. City Council authorized sewer from Pearl St. to Edgar Ave. W. K. Stringfellow, City Engr. Noted Oct. 14.

Ohio, Martins Ferry—Bids will be received about next spring for sanitary sewer system. Estimated cost, $15,000. Carl P. Lash, City Engr.

Ohio, Toledo—County Commissioners voted $60,000 bonds for five miles of sewer in Home Acres, West Toledo.

Ohio, Vermilion—Bids will be received by Lewis Clattner, Village Clk., until noon, Nov. 16, for sanitary sewer system and sewage disposal plant. Morris Knowles, 2541 Oliver Bldg., Pittsburgh, Penn., Consult. Engr.

Ohio, Wellsville—Plans being prepared by J. M. George, City Engr., for brick storm sewer.

Ind., Elwood—A. D. Moffet, Engr., submitted report estimating cost of sewer system to drain business section at $14,000.

Mich., Benton Harbor—City Council will build sewer in Parsons St.

Mich., Birmingham—Bonds issued for sanitary sewers.

Ill., East Moline—B. Warner, City Engr., will prepare plans for sewer system.

Ill., Grayville—Board of Local Improvements plans sewer system. Estimated cost, $22,016.

Ill., Watseka—Election will soon be held to vote new sewer system and improve old one. Charles E. Blake, Engr.

Wis., Green Bay—Bids will be received until 10 a.m., Nov. 4, by Committee of Sewers and Plumbing of Common Council at office of City Clerk, for sewer construction.

Iowa, Davenport—Press reports state citizens contemplate new sewer system.

Iowa, Marengo—City plans to install sewerage system.

Iowa, Muscatine—(Official)—We have been informed that construction work on sewer in Mad Creek district will not be started for a year. C. H. Young, City Engr. Noted Oct. 7.

Iowa, Oakland—Bids will be received until Nov. 23 by Elvin W. Wentz, City Clk., for 13,500 ft. of sewers. Noted Oct. 7.

Iowa, Rinard—Surveys being made for sewer system and septic tank.

Minn., Worthington—Citizens voted $30,000 bonds for improving and extending sewer system.

Kan., Anthony—Citizens voted in favor of sewer system.

Kan., Iola—Plans being prepared by Theodore Bartlett, City Engr., for extension of sewer system.

S. D., Winner—Election will be held Nov. 1 to vote on $10,000 bonds for sewerage system.

N. D., Wahpeton—Bids will be received by S. H. Murray, City Audr., until 7:30 p.m., Nov. 1, for extending sewers in District Nos. 1 and 3.

Mo., Odessa—Plans being prepared by Black & Veatch, Engr., 507 Interstate Bldg., Kansas City, Mo., for sewer system.

Tex., Corsicana—City voted $20,000 bonds for sewer improvements. Noted Sept. 30.

Tex., Quanah—Proposition being considered by City Council for installation of sewer system.

Tex., San Benito—(Official)—Bids will be received by J. H. Lyons, Mayor, and City Council, until noon, Nov. 24, for sanitary sewage-disposal plant. Noted Oct. 7 and 14.

Tex., Sherman—Plans being prepared by Charles Saville, Engr., Dallas, for sewer system and sewage-disposal plant. Noted Oct. 21.

Tex., Uvalde—Plans being prepared by N. Werenskiold, Consult. Engr., Box 511, Dallas, for sewage disposal plant. Noted Oct. 14.

N. M., Albuquerque—James N. Gladding, City Engr., preparing plans for pump for sewerage pumping station.

Wash., Seattle—(Official)—Board of Public Works has postponed final action for outfall sewer in Seaview Ave. for about six months. Noted Sept. 30.

Ore., Portland—Plans being prepared for reconstructing wood box sewer in Mill and Water St. Estimated cost, $10,000.

Calif., Auburn—Election will be held Nov. 16 to vote on $15,000 bonds for extending sewer system. Noted Sept. 23.

Calif., San Diego—Bids will be received for completing Ocean Beach sewer system.

Calif., Santa Monica—City Engineer submitted report to City Council estimating cost of storm sewer system at $250,000.

Que., Ste. Agathe des Monts—Quimet & Lesage, 76th St. Gabriel St., Montreal, prepared plans for sewage pumping plant. Estimated cost, $125,000.

Ont., London—City Council contemplates storm sewer on Grand Ave.

Ont., Parry Sound—Bids being received by A. Murray, Town Engr., for sewer.

Alta., Edmonton—(Official)—We have been informed that election will not be held to vote on $250,000 bonds for sewage-disposal plant as stated in our issue of Sept. 30.

Bids In and Contracts Awarded

N. Y., Albany—Contract awarded to R. D. WOOD, Philadelphia, Penn., at $80,900, for pumping station at Tivoli St. for sewer system.

N. Y., Newburg—Contract awarded to CHARLES SPINO, Newburg, for sewer in Grand St.

N. Y., New York—(Borough of Brooklyn)—(Official)—Frank Merindino, 556A 17th St., Brooklyn, low bidder at 90¢ for sewer in Kings Highway from East 16th St. to East 17th St.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to W. J. FITZGERALD, 547 West 45th St., New York, at $10,492, for receiving basins, Nos. 1, 2, 3 and 4. Noted Oct. 14.

N. Y., New York—(Borough of Queens)—(Official)—Contracts awarded for sewers in various streets as follows: (1) in Hunters Point Ave. to J. L. SIGRETTO CO., 20 Curtis Ave., Richmond Hill, at $57,720; (2) Kimball Ave. to GREEN CONTRACTING CO., 292 Fifth Ave., Brooklyn, at $22,847; (3) Hollomer Ave. to JAMES H. JOHNSON, Beekman and Cliff St., New York, at $15,755; (4) Smart Ave., to GREEN CONTRACTING CO., at $5,810; (8) Willard Ave., to J. L. SIGGRETTO CO., at $8,787. Noted Oct. 7.

N. J., Fairview—Bids were received for sewers in Lincoln St. and Wilker St. (low bidders) Bergen Contracting Co., 984 and Thomas Cavannaugh, $15,755. Noted Sept. 30.

N. J., Glen Gardner—Contract for additions to sewage disposal plant at Sanitorium for Tuberculosis Diseases awarded to NEW YORK SEWAGE DISPOSAL CO., New York, N. Y., at $15,727. Noted Sept. 23.

N. J., Newark—Contracts awarded to JOSEPH CRESTONE, Montclair, for storm water sewer in Park Ave. and to JAMES P. BOYLAN, Belleville, for sanitary sewer.

N. J., Seaside Park—(Official)—Contract for sewers and sewage disposal plant awarded to CANTRELL CONSTRUCTION CO., 21st and Sedgely Ave., Philadelphia, Penn., at $21,892. Noted Oct. 7.

N. J., South Boundbrook—Contract for sewer system awarded to ALLEN ENGINEERING CO., Newark, at $28,020. Noted Sept. 30.

Md., Baltimore—Contracts for sewer construction awarded as follows: Contract No. 160, District No. 46, to M. O'HERRON & SONS, 843 North Howard St., Baltimore, at $41,600; contract No. 161, District No. 46, to CONTINENTAL CONTRACTING CO., 1508 Linden Ave., Baltimore, at $32,500; Contract No. 159, District No. 46, to BOYLE & LOHMULLER CO., Calvert Bldg., Baltimore, at $75,000.

W. Va., Parkersburg—Contract awarded to C. KENNEDY & SON, Parkersburg, at $6,000, for sanitary sewers in various streets. Noted Oct. 14.

N. C., Albemarle—Contract for sewer system awarded to ACME PLUMBING CO., Charlotte, at $20,079. Noted Oct. 7.

N. C., Durham—Contract for sanitary sewers, manholes and flush tanks awarded to BLANKENSHIP, McCLELLAND & MENDENHALL, Charlotte; contract for pipe to CHATTANOOGA PIPE CO., Chattanooga, Tenn. Noted Oct. 14.

Miss., Dio—Contract for sewer system awarded to O. C. EURE, Hattiesburg, at about $12,000.

Tenn., Chattanooga—Contract awarded to JOHN NOLL, SR., Chattanooga, at $10,625, for extending Broad St. sewer.

Ohio, Dayton—Contract for sewers in District No. 6 awarded to WORTH & BLESSING, at $30,830. Noted Oct. 7.

Ohio, Hamilton—Contract for storm sewer awarded to JOHN H. TRUNCK, at $4,266.

Ind., Indianapolis—Contracts for sewers awarded to AMERICAN CONSTRUCTION CO., at $26,499, for sewer in Michigan St. and to GEORGE SCHAUER & SON, at $14,257, for sewer in Germania Ave. Noted Sept. 30.

Mich., Allegan—Contract awarded to H. A. HOXIE, Grand Rapids, by Board of Public Works for north side sewer.

Ill., Marion—Contract awarded to WILLIAMS & TOWNSEND, Marion, at $12,925, for sanitary sewer system.

Ill., Salem—Contract awarded to FRANK MANULLA, Niles, for sanitary sewer system. Noted Sept. 2.

Wis., Ashland—(Official)—All bids received Oct. 14 for sewers rejected. W. C. Morris, City Clk. Noted Oct. 7.

Wis., Manitowoc—Contract for concrete sewer awarded to A. H. PITZ, at $5,388. Noted Oct. 21.

Iowa, Davenport—Contract awarded to ADOLPH KAHLES, for sewers in Eastern Ave.

Iowa, Elliott—(Official)—Contract awarded to WILLIAM S. DOLL, Omaha, Neb., at $5,743, for sanitary sewers. Noted Oct. 14.

Iowa, Sioux City—Contract for North Morningside, sewer system awarded to S. T. LEEDER, at about $11,000. Noted Sept. 29.

Minn., Cokato—Contract for sewer system awarded to ISTRUP & OLSON, CITY HALL, Minneapolis, at $5,150. Noted Sept. 23.

Minn., St. Paul—Contract for sanitary sewer system awarded to O'Neil & Preston, St. Paul, at $24,645, cancelled as no money is available in sewer maintenance account of general fund. Noted Oct. 7.

Mont., White Sulphur Springs—Contract awarded to J. KELLEY, Judith Gap, at $4,000, for sewer work.

Ore., Forest Grove—Contract for sanitary sewer system awarded to ELLIOTT CONTRACTING CO., Portland, at $58,448. Noted Oct. 21.

Calif., Compton—James Kennedy, Washington Bldg., Los Angeles, at $42,462, submitted lowest bid for sewer system. Noted Oct. 7.

Calif., Sacramento—Contract awarded to CONTRA COSTA CONSTRUCTION CO., at $53,164, for sewer system through Blauth tract.

Calif., Stockton—Contract for storm sewer in North, East and Madison St. awarded to A. B. MUNSON & SONS, Stockton, at $26,008.

N. S., New Glasgow—Contract for sewer in Trenton Rd. awarded to CHISHOLM & CO., New Glasgow. Noted Sept. 30.

Ont., Mimico—Contracts awarded to HARVEY STEWART & CO., Nova Scotia, at $64,493 water and sewer systems and pumping station and to F. F. FRYE, Toronto, at $15,253 for disposal plant. Noted Aug. 12.

Ont., New Toronto—Contracts awarded to HARVEY STEWART & CO., Nova Scotia, for sewer and water mains, at $59,064 and for pumping station, $5,429, to F. F. FRYE, Toronto, for sewage disposal plant at $15,253 and to ONTARIO SEWER PIPE CO., Toronto, for pipe. Noted July 29.

Ont., Toronto—See item under "Streets and Roads."

Garbage

Proposed Work

N. J., Glen Ridge—City Council received plans for garbage incinerator. Estimated cost, $13,000.

N. J., Nutley—Election will be held Nov. 2 to vote on bonds for garbage incinerator. Noted Sept. 23.

Minn., Duluth—Plans being prepared for garbage incinerator. Estimated cost, $50,000. James A. Farrell, Comr. of Pub. Wks. Noted Oct. 21.

Mo., Kansas City—Council contemplates garbage incinerator. Estimated cost, $400,000.

Bids In and Contracts Awarded

N. J., Newark—Bids received Oct. 21 by Board of Street and Water Commissioners for collecting and disposing of refuse for five years as follows: Newark Paving Co., Newark, $898,200; Henry Van der Roest, Newark, $1,298,250, and J. T. Shanley, Newark, $1,195,000. Noted Oct. 14.

STREETS AND ROADS

Proposed Work

N. Y., Albany—(Official)—Bids will be received until 1 p.m., Nov. 11, by Edwin Dulley, Comr. State Highways, for road work in various counties. (See adv.)

N. Y., Hudson—Bonds for $29,000 for streets voted.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., Room 2, Borough Hall, until 11 a.m., Nov. 4, for repairing sidewalks on various streets.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Nov. 5, for regulating and repaving various streets and avenues of the borough.

N. J., Camden—Board of Chosen Freeholders of Camden County plans to repave Camden-Moorestown Turnpike between 34th and 37th St.

N. J., Hackensack—Bids will be received by Board of Chosen Freeholders of Bergen County until Oct. 29 for paving portions of Essex St.

N. J., New Brunswick—(Official)—Bids will be received until 10 a.m., Nov. 9, by Asher Atkinson, City Engr., for paving seven streets with brick, asphalt block or warrenite.

N. J., Newton—Bids will be received by Board of Chosen Freeholders of Sussex County until Nov. 11 for improving a number of macadam roads. Noted Oct. 21.

Penn., Allentown—(Official)—We have been informed that the city will not receive bids for paving Howard and Tenth St. as stated in our issue of Oct. 14. C. D. Weirbach, City Engr.

Penn., Pittsburgh—Bids will be received by County Controller until 10 a.m., Oct. 29, for improving Beatty, Clinton and Frankfort Rd.

Md., Baltimore—Bids will be received by County Clerk until Nov. 3 for grading 5.21 miles of road between H. D. Gibsons and E. K. Jesses and 2.93 miles between Castle Run and Top Copper Ridge. H. P. Coleman, Richmond, State Highway Comr.

Va., Norfolk—(Official)—Bids will be received until 1 p.m., Nov. 4, by Board of Control for paving work on Granby St. W. H. Taylor, Jr., City Engr. (See adv.)

W. Va., Wellsburg—Election will be held about Jan. 1 in Brooke County to vote on $600,000 bonds for roads.

W. Va., Wheeling—Bids will soon be received for paving 13th Ave. from Fifth to Sixth St., E., Fifth St. from 13th Ave. to North Blvd., alley between Artisan Ave. Fourth, 19th and 20th St., 11th Ave. between Shelton Ave. and 16th St., 9th St. from 11th to 13th Ave.

N. C., Bryson City—Bids will be received until Nov. 1 by T. M. Howerton, Engr., for grading about 6.5 miles along Creek to Almond and nine miles of highway from Swain to Macon county line.

N. C., Franklin—Election will be held Nov. 16 in Macon County, Cowee Township, to vote on $15,000 bonds for improving a number of roads.

N. C., King—Election will be held Nov. 16 in Yadkin Township to vote on bonds for road construction.

N. C., Shelby—Citizens voted $30,000 bonds for road work in Cleveland County. Noted Sept. 23.

Fla., Ft. Myers—Citizens of Lee County voted $350,000 bonds for portion of Tamiami Trail from Ft. Myers to Dade county line.

Fla., Ft. Pierce—Bids will be received until Nov. 2 by Commissioners of St. Lucie County for hardsurfacing Fellsmere-Sebastian Rd. J. E. Fultz, County Clk. Noted Oct. 21.

Fla., Tavares—Bids will be received until Nov. 1 by J. H. Compton, Chn., Comrs. of Lake County, for 2½ miles of roadway in connection with fill and bridge across marsh at Clermont.

Fla., Titusville—Bids will be received until Nov. 9 by Commissioners of Brevard County for about 68 miles of road. Estimated cost, $150,000. S. A. Osteen, Chn.

Miss., Greenwood—Citizens voted $7,500 bonds to pave Carrollton Ave. from Yazoo & Mississippi Valley R.R. to corporate limits.

Miss., Kosciusko—Bids will be received until Nov. 1 by J. H. Oliver, Clk., County Bd. of Supervs. for sale of $50,000 bonds for roads in District No. 1.

La., Monroe—Bids will be received by H. D. Apgar, Mayor, until Nov. 5, for approximately 37,000 sq.yd. gravel with tarvia top and 24,800 ft. of curb and gutter.

Tenn., Chattanooga—Engineering Department of Hamilton County preparing estimates as to cost of constructing approximately two miles of concrete roadway on Chattanooga-Graysville pike and Chattanooga-Dayton pike.

Tenn., Kingston—Bonds for $32,000 voted for roads and pike in Fifth District between Kingston-Rockwood pike and Hood's Landing.

Ky., Bellevue—(Newport post office)—Election will be held Nov. 2 to vote on $23,000 bonds to improve Taylor Ave. from Fairfield to Grandview Ave. Noted Oct. 21.

Ky., Morganfield—Contract will soon be awarded for constructing Uniontown and Boxville Rds.

Ohio, Cincinnati—Frank Krug, City Engr., submitted report to City Council estimating cost of improving various streets as follows: Marshall Ave. from Spring Grove to Colerain Ave., granite, $9,423; Selim Ave. from Westwood to Honell Ave., bituminous macadam, $21,461; brick, $28,241, granite, $38,281; Colerain Ave. from Bank to York St., and 6-in. water main asphalt, $11,084, bitulithic, $11,174.

Ohio, Granville—(Official)—Bids will be received by Roe E. Morrow, Village Clk., until noon, Oct. 28, for draining, curbing and paving Broadway St. from east corporation line to west corporation line. (See adv.)

Ohio, Newark—Bids will be received by W. C. Christian, Dir. of Pub. Ser., until noon, Oct. 29, for paving roadway of Park Ave. and resurfacing Hudson Ave.

Ohio, Zanesville—(Official)—Election will be held Nov. 2 to vote on $22,250 bonds for paving. Noted Oct. 14.

Ind., Bloomfield—Bids will be received by Commissioners of Greene County until 2 p.m., Nov. 2, for macadamized road in Fairplay Township. G. E. Kidd, Audr.

Ind., Bloomington—Bids will be received by Commissioners of Monroe County until 2 p.m., Nov. 2, for roads in Van Buren and Washington Townships. W. F. Kinser, Audr.

Ind., Danville—Bids will be received by Commissioners of Hendricks County until 10:30 a.m., Nov. 5, for roads in Center and Middle Townships. L. W. Borders, Audr. Noted Sept. 9.

Ind., Delphi—Bids will be received by Commissioners of Carroll County until 12 a.m., Nov. 2, for constructing roads in Jefferson, Deer Creek, Monroe and Rock Creek Townships. M. G. Haun, Audr. Noted Sept. 9.

Ind., Evansville—Bids will be received by Commissioners of Vanderburgh County until 10 a.m., Nov. 4, for macadam road in Pigeon Township. C. P. Beard, Audr.

Ind., Ft. Wayne—Bids being received for paving Rudisill Ave. from Calhoun St. to Broadway.

Ind., Fowler—Bids will be received until 1 p.m., Nov. 1, by Commissioners of Benton County, for road in Balboa Township. W. Mankey, Audr.

Ind., Goshen—Bids will be received until 2 p.m., Nov. 1, by Commissioners of Elkhart County, for concrete road in Harrison Township. John W. Brown, Audr. Noted Sept. 16 and Oct. 14.

Ind., Greencastle—Bids will be received until 2 p.m., Nov. 1, by Commissioners of Putnam County, for macadam road in Greencastle Township.

Ind., Greensburg—Bids will be received by Commissioners of Decatur County, until 1 p.m., Nov. 1, for road in Washington Township. L. W. Sands, Audr.

Ind., Indianapolis—Board of Public Works plans to pave South Capitol Ave. between Merrill and McCarty St. Estimated cost, $10,694.

Ind., Martinsville—Bids will be received until 12 a.m., Nov. 2, by Commissioners of Morgan County for road in Brown Township. S. Watson, Audr.

Ind., Muncie—Bids will be received by F. M. Williams, Audr., Comrs. of Delaware County, until 10 a.m., Nov. 3, for two roads in Liberty Township.

Ind., New Albany—Bids will be received until 10 a.m., Nov. 11, by Commissioners of Floyd County for constructing 10,200-ft. of road in New Albany Township.

Ind., Noblesville—Bids will be received by Commissioners of Hamilton County until 10 a.m., Nov. 2, for constructing roads in Fall Creek, Wayne, Washington and Noblesville Townships. W. O. Horton, Audr.

Ind., Peru—Bids will be received by Commissioners of Miami County until 12 a.m., Nov. 8, for concrete road in Peru Township. F. K. McElheny, Audr.

Ind., Petersburg—Bids will be received until 2 p.m., Nov. 2, by Commissioners of Pike County, for rock road in Jefferson Township. John D. Gray, Audr.

Ind., Plymouth—Bids will be received until 1:30 p.m., Nov. 2, by Commissioners of Marshall County, for three roads in German Township. G. F. McCoy, Audr.

Ind., Shelbyville—Bids will be received until 10 a.m., Nov. 3, by F. W. Fagel, Audr., Comrs. of Shelby County, for two roads in Washington Township.

Mich., Houghton—County Board of Supervisors will ask for an appropriation of approximately $100,000 for roads in 1916.

Mich., Reeman—Citizens voted $35,000 bonds for gravel road in Sheridan Township.

Ill., Des Plaines—Bids will be received about Nov. 1 by John A. Bell, City Clk., for 4,500 sq.yd. of concrete pavement. Noted Oct. 14.

Ill., Springfield—(Official)—Bids will be received at office of State Highway Commission until 11 a.m., Nov. 3, for approximately 4,140 ft. of State Aid Highway in Sangamon County. Estimated cost, $14,460.

Kan., Marysville—Bids will be received by R. F. Gallup, County Engr., until noon, Nov. 4, for grading ¾ mile of road.

Kan., Pittsburg—Citizens contemplate rock road between Pittsburg and Kansas City.

Kan., Topeka—Contract will be awarded about next spring for paving Kent Rd. Work includes about 23,000 sq.yd. of pavement and curbing. Walter J. Arnold, County Engr.

Mo., Bolivar—Election will be held Nov. 2 in Polk County, Humasville Special Eight Mill Road District, to vote on $30,000 bonds for road improvements.

Mo., Higginsville—Contract will soon be awarded for about eight blocks of vertical fiber brick pavement on concrete base and 1¼ miles curb and gutter.

Mo., Jefferson City—(Official)—Election will be held Nov. 9 to vote on $100,000 bonds for roads. Noted Sept. 2 and Oct. 7.

Mo., Kansas City—Property owners contemplate reducing grade on Main St. Estimated cost between $150,000 and $200,000. Curtis Hill, City Engr.

Mo., Pittsville—Citizens contemplate rock road across Johnson County.

Mo., Springfield—All bids received for nine miles of roads in Ingram Special Road District rejected. New bids will be received. Estimated cost, $20,000.

Tex., Batesville—(Official)—Citizens voted $15,000 bonds for road improvements in Zavalla County. Noted Oct. 7.

Tex., Beaumont—Bids will be received about Nov. 19 for 11 miles of road between Hardin, Liberty and Jefferson Counties.

Tex., Belton—Road bonds for $250,000 for roads in Bell County Road District No. 10 approved by Attorney General, Austin.

Tex., Columbus—Report has been submitted estimating cost of 49 miles of gravel road between Houston and San Antonia at $100,000.

Tex., Corsicana—Citizens voted $80,000 bonds for street improvements. Noted Sept. 23.

Tex., Dallas—Bryan Parkway will be paved between Greenville Rd. and Munger Blvd.

Tex., El Paso—Citizens of El Paso County voted $300,000 bonds for road work. Noted Sept. 23.

Tex., Orange—Election will be held Nov. 20 in Precinct No. 4 to vote on $50,000 bonds for roads and bridges.

Tex., Rusk—Election will be held Nov. 16 in Cherokee County Road District No. 1 to vote on $150,000 bonds for road construction.

Okla., Clinton—City has postponed paving Frisco Ave. indefinitely. Noted Oct. 7.

Okla., Okmulgee—City Commissioners plan an expenditure of about $50,000 for paving South Morton Ave., South Okmulgee and South Alabama St.

Idaho, Lewiston—Citizens of Nez Prece County, Road District Nos. 3 and 26 voted to construct road from Lewiston to Washington State line, about 11 miles.

Wash., Aberdeen—City Council plans an expenditure of about $16,000 for improving Curtis St.

Wash., Coquille—Contract will soon be awarded for Coos Bay-Coquille Rd. Estimated cost, $35,000.

Wash., Seattle—Commissioners of King County will soon award contract for grading and graveling 1½ miles of highway east of Enumclaw to connect with McClellan Pass Highway and for two miles of highway between Newport and Hazelwood.

Wash., Spokane—County Commissioners will soon award contract for 35 miles of roads.

Ore., Portland—Plans being considered for extending William Ave. from connection with railway bridge and Broadway Bridge to Interstate Bridge. Estimated cost, $70,000.

Ore., Salem—State Highway Commission has appropriated $175,000 for improving highways in Wasco, Crook, Columbia and Jackson Counties.

Calif., Arcadia—Bids will be received by George E. Grimes, City Clk., until Nov. 4, for about 16 miles of oiled macadam roadway and 10,000-ft. of concrete curb and gutter. Noted Oct. 23.

Calif., Bakersfield—Bids will be received by County Board of Supervisors until Nov. 1 for paving one mile of Brundage Lane and three miles of Bellview Rd.

Ont., Ottawa—An expenditure of $600,000 planned for macadam highway to St. Lawrence River, the cost to be borne by the city, government and towns and villages through which it will pass.

Ont., York—Bids will soon be received for paving Lauder and Glenholme Ave. Estimated cost, $8,000. F. Barber, 57 Adelaide St., E., Toronto, Engr.

Alta., Beverly—By-law will be voted on Nov. 6 to provide $10,000 for clearing and grading streets.

Bids In and Contracts Awarded

Mass., Boston—Bids were received by State Highway Commission for asphalt macadam road in Grafton and Upton as follows: Perini Construction Co., Ashland, $48,103; Charles E. Horne, Millbury, $50,056; Alco Contracting Co., Boston, $54,471.

Mass., Taunton—(Official)—City will pave a number of streets by day labor. Estimated cost, $14,300. Noted Oct. 14.

N. Y., Herkimer—Lowest bid received for road from Eagle Bay to Big Moose was that of B. F. S. Co., Herkimer, at $48,803.

N. Y., New York—(Official)—(Borough of Bronx)—Contracts for paving awarded as follows: Powell Ave. from Tremont to Zerega Ave. to BURNSIDE CONTRACTING CO., at $12,105; Walker Ave. from intersection of Westchester Ave. and former Main St. to easterly terminus of land acquired for West Farms Rd. to Eastern Blvd., to ANABEL CONSTRUCTION CO., at $76,333; Rosedale Ave. and Kingsbridge Terrace to MUNICIPAL ASPHALT CO., at $5,124 and $1,322 respectively. Noted Oct. 21.

N. Y., New York—(Borough of Brooklyn—(Official)—Lowest bids for improving Bridge St. from Sands to Nassau St. and regulating, grading, curbing and laying sidewalks on Ditmas Ave. from East 87th St. to Ralph Ave., Ralph Ave. from northeasterly side of 85th St. to Old Canarsie Ave. and East 83rd St. from Ditmas Ave. to Old Canarsie Ave. submitted by Charles A. Myers Construction Co., at $6,804 and M. T. Maher, at $9,932.

N. Y., New York—(Borough of Manhattan)—(Official)—Low bids received Oct. 19 for improving various streets and avenues of the city were as follows: 27th St. from Lexington to Madison Ave., 39th St. from Park Ave. to Broadway and from 8th to 11th Ave., 65th and 66th St. from Amsterdam to West End Ave., Aztec Asphalt Co., Inc., 90 West St., New York, at $7,084, $36,686 and $12,663 respectively; 95th St. from Madison to Fifth Ave., Cleveland Trinidad Paving Co., Flushing, N. Y., at $3,563; 35th St. from West Side of Madison Ave. to East Side of Sixth Ave., 37th St. from First to Second Ave., 38th St. from Madison to Sixth Ave., Sicilian Asphalt Paving Co., 41 Park Row, New York, at $9,076, $5,598 and $9,816 respectively; 124th St. from First to Third Ave., Columbus Ave. from 84th to 96th St., Barber Asphalt Paving Co., Woolworth Bldg., New York, at $9,776 and $36,319 respectively. Eighth Ave. from 119th to 125th St. and from Seventh to Eighth Ave., Asphalt Construction Co., 298 Broadway, New York, at $50,767; Perry St. from Greenwich to West St., W. J. Fitzgerald, 547 West 45th St., at $9,509; 179th St. from Northern to New Haven Ave., Barber Asphalt Paving Co., Woolworth Bldg., New York, at $2,579. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for regulating and repaving East 18th St. from Broadway to Fourth Ave. awarded to W. J. FITZGERALD, 547 West 45th St., New York, at $5,412. Noted Oct. 21.

N. Y., New York—(Borough of Queens)—(Official)—Low bids received Oct. 5 for improving Jerome Ave. from Boyd to Greenwood Ave. and South Ave. from New York Ave. to Rockaway Turnpike were from William T. Maxwell and Peace Bros., for furnishing and delivering 200,000 gal. of road oil from Warner-Quinlan Asphalt Co. Noted Sept. 30.

N. J., Newark—Contract for paving North Sixth St. awarded to GLENFIELD CONSTRUCTION CO., at $8,332. Noted Sept. 23 and Oct. 14.

N. J., Newark—Contract for improving Essex Ave. from Summit to Warren St. awarded to W. T. CHRITCHFIELD, Jersey City, at $23,850. Noted Sept. 30 and Oct. 14.

N. J., Newark—Contract for paving Lyons Ave. awarded to NORTHERN CONSTRUCTION CO., Newark, at $62,970.

Del., Wilmington—Contract for stone road on Kennett Pike awarded to I. J. HOLLINGSWORTH, Elsmere, at $17,491. Noted Oct. 7.

Md., Salisbury—Contract for two miles of State-Aid highway upon or along Salisbury-Anderson's Hill Rd. awarded to JUNIATA CO., 410 Empire Bldg., Philadelphia, Penn., at $13,035. Noted Oct. 7.

W. Va., Adamston—(Official)—Contract for grading, paving and curbing Pike St. awarded to SISLER & MORSE, Marietta, Ohio. Noted Oct. 14.

W. Va., Moundsville—Contract for improving Grant Ave. and Fourth St. awarded to STRINGER & SPRINGER, Wheeling at about $7,000. Noted Oct. 7.

Tenn., Blountville—Contract for grading, draining and macadamizing roads awarded to PATTON BROS., Bluff City.

Ky., Newport—(Official)—Contract for paving Tenth St. awarded to SCHOOLFIELD & JONES, Newport, at $9,478. Noted Oct. 14.

Ky., Williamsburg—Contract for road from Williamsburg to McCreary County line, about 12 miles, awarded to A. CARSON, Knoxville, Tenn.

Ohio, Bexley—Contract for paving Main St. awarded to GEORGE H. HEFFNER & SON, Celina, at $37,375.

Ohio, Cincinnati—(Official)—Contract for improving West Sixth St. awarded to HENKEL & SULLIVAN, Cincinnati, at $80,918. Noted Oct. 7.

Ohio, Cincinnati—(Official)—Contract for improving Wayne Ave. from Stewart Ave. to Martin Rd., Springfield Township, awarded to PAUL MENGER, Cincinnati, at $6,770. Noted Sept. 30.

Ohio, Columbus—Lowest bids received by County Commissioners for improving various roads were as follows: Frantz Rd. in Washington Township, R. W. McCoy, Columbus, at $5,971; McCoy Rd., Perry Township, J. M. Snouffer, Columbus, at $10,311; Miller Rd., Perry Township, Wilson Contracting Co., Newark, at $5,028; Ryan Ave., Franklin Township, Highway Contracting Co., Columbus, at $5,275; Cambridge Rd., Perry Township, Wilson Construction Co., at $8,350. Noted Sept. 23.

Ohio, Toledo—Contract for repaving Ontario St. awarded to H. P. STREICHER CO., at $30,186.

Ind., Bedford—Contract for Bedford-Oolitic Rd. and concrete bridge across Salt Creek awarded to EWING SHIELDS, Seymour, at $61,916.

Ind., La Porte—Contract for Schultz Rd. in Dewey Township awarded to LOUIS MARTINE, at $12,424.

Ind., Vincennes—Contract for two roads awarded to W. E. RUBLE and K. JESSE WILLIAMS, at $4,200 and $2,190 respectively.

Ind., Vincennes—Contract for W. C. Secrest gravel road awarded to W. L. ENSLEY, at $8,114.

Ind., Winamac—Contract for gravel road awarded to JOHN W. BLAIR, Winamac, at $8,265.

Ill., Alton—Contract for paving Summit, Mill and West Fourth St. awarded to M. BURKE, Alton, at $17,493.

Minn., Hibbing—Contract for Malmquist Rd. awarded to G. MALMQUIST.

Minn., Little Falls—Contract for repairing road along line between Little Falls and Belle Prairie awarded to C. A. MATHEWSON.

Minn., Thief River Falls—(Official)—Contract for gravel-ing State Rd. No. 1 awarded to M. BANUT & CO., St. Cloud, at $8,169. Noted Oct. 14.

Kan., Concordia—Contract for 40,000 sq.ft. of sidewalks awarded to FRANCOUER BROS.

Mo., Kansas City—Contract for paving West 14th St. awarded to J. E. WELSH, 1122 East Gillham St., Kansas City, at $5,358; South Woodland Ave. to WILLIAM HARTE, 311 Midland Bldg., Kansas City, at $6,646.

Mo., St. Joseph—Contract for paving 11th St. from Powell to Grand Ave. awarded to YOUNG BROS. CONSTRUCTION CO., at $15,662.

Ark., Conway—Contract for approximately 13,000 sq.yd. of paving in District No. 4 awarded to McCULLOCH & HALTER, Conway, at 89c. per sq.yd.

Tex., Marshall—Contract for paving East Houston Ave. from Lafayette to Albert St. awarded to B. HAHN CONSTRUCTION CO., Dallas.

Tex., Terrell—Contract for 12,000 yd. rock asphalt paving awarded to B. HAHN CONSTRUCTION CO., Paris. H. T. Brewster, Terrell, Engr.

Idaho, Boise—(Official)—Contract for seven miles of Idaho-Pacific State Highway awarded to WHITTET & RELYEA, New Plymouth, at $6,000. Noted Oct. 7.

Wash., Olympia—W. G. Mulligan Co., Spokane, at $21,120, submitted lowest bid for seven miles of highway from Colfax to Rosalia, Whitman County, and General Construction Co., Spokane, at $13,243, low bidder for road on Inland Empire highway in Walla Walla and Columbia Counties between Waitesburg and Dayton.

Calif., Arcadia—(Official)—All bids received Oct. 7 for 16 miles of oiled macadam road and 10,000-ft. concrete curb and gutter rejected. Noted Sept. 30 and Oct. 21.

Calif., Los Angeles—Contract for improving Fourth St. from Boyle Ave. to Fresno St. awarded to FAIRCHILD-GILMORE-WILTON CO., at $50,675.

Calif., Sacramento—Contract for Hood-Franklin highway awarded to CLARK & HENERY, Stockton, at $26,000. Noted Sept. 23.

Calif., Santa Ana—Contract for improving Garden Grove Rd. awarded to O. & C. CONSTRUCTION CO., at $9,400.

Ont., Toronto—Contracts for paving and sewer construction awarded as follows: Paving Main St. to GODSON CONTRACTING CO., at $20,572; Quebec, Bridgman and Wells St to CONSTRUCTING & PAVING CO., at $23,312 and $5,641 respectively; Alberta and Bridgman St. and Goldsmith Drive to R. C. HARRIS, COMR. OF WKS., at $38,392; Pelham St. to BRAYLEY & NICHOLSON, at $6,831; Alton St. and Grace Terrace to WARREN BITUMINOUS PAVING CO., at $30,696; sewers on Chambers and Howick St. to LONGO & GENTILE, at $1,580; Lansdowne Ave. to J. MAGUIRE, at $1,869; Silverthorne and Turnberry St. to R. C. HARRIS, at $4,638.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Vacuum Fumigating Co. will build fumigating plant to fumigate foreign cotton.

Mass., Brockton—George E. Keith Shoe Co. will build chemical laboratory near Auburn St. Estimated cost, $45,000.

Mass., Worcester—Packard Motor Car Co. will build garage, repair shop and sales room on Atchison St. Estimated cost, $60,000. Allan Davis, Local Mgr.

R. I., Pawtucket—George A. Cummings will build two-story brick laundry 49x136 ft. on Pawtucket Ave.

Conn., Hartford—Plans prepared for factory for Colt's Patent Fire Arms Mfg. Co. Estimated cost, $400,000.

Conn., Waterbury—Waterbury Farrell Foundry & Machine Co. has plans for two-story, 75x150-ft. mill building.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids being received for one-story, 75x100-ft. brick and steel ice-storage plant at 514 East 71st St. for Ice Mfg. Co., 1480 Broadway. Morteson & Co., 405 Lexington Ave., Arch. Estimated cost, $45,000.

N. Y., New York—(Borough of Queens)—Mirror Film Co. will build motion picture plant at Glendale Casino Park, Woodhaven.

N. Y., Rochester—Plans prepared for two-story 43x100-ft. and five-story, 80x165-ft. additions to plant of Eastman Kodak Co. Noted Oct. 7.

N. Y., Troy—Cluett Peabody Co., Inc., will rebuild its factory. Eight-story, 70x100-ft. building will be constructed first. Entire structure 75x600-ft. Estimated cost, $2,000,000.

N. Y., Yonkers—Reliance Motion Picture Corporation plans studios, power house and shops at 537 Riverdale Ave. Estimated cost, $40,000.

N. J., Bayonne—(Official)—Texas Co. will build service plant by own forces. Noted Oct. 7.

N. J., Bloomfield—Scott & Bowne Co., Orange St., plans addition. Estimated cost, $40,000.

N. J., Newark—Clark Razor Blade Co. will build eight-story factory at 205 New Jersey Railroad Ave. Estimated cost, $50,000.

N. J., Trenton—F. W. Devoe & C. T. Reynolds Co., 213 New Jersey Railroad St. will make additions to its varnish plant. Estimated cost, $25,000.

Penn., Philadelphia—Sauer & Hahn, Arch., preparing plans for four-story, 54x100-ft. brick and concrete factory at 1220 Spring St. for M. Rice & Co., 1220 Race St.

Penn., Philadelphia—H. O. Wilbur & Sons, Inc., will build six-story 130x100-ft. factory and warehouse at 245 North Third St.

Penn., Pittsburgh—Henry Cohen, Charlestown, W. Va., will build five-story warehouse at 1139 Penn Ave. Walter Cohen, Arch. Estimated cost, $50,000.

Penn., Wilkes-Barre—Bids will soon be received by Sturdevant & Poggi, Coal Exchange Bldg., for one- and two-story machine shop, etc., for Lehigh & Wilkes-Barre Coal Co. Estimated cost, $250,000.

Md., Mount Airy—Bids being received by Bachman Shirt Co. for two-story, 200x400-ft. factory.

Va., Norfolk—Bids will soon be received for 90x107x84-ft. brick and steel garage for R. A. Roethke. Herbert W. Simpson, Arch.

Va., Roanoke—Citizens' Crystal Ice Co. will build cold-storage warehouse.

W. Va., Dunbar—American Vacuum Can Co. plans 150x200-ft. brick and steel plant. Estimated cost, $400,000. U. G. Fletcher and F. P. Groscup, interested.

W. Va., Lumberport—Mound City Cut Glass Co. will build 60x240-ft. factory. T. J. Sullivan, Clarksburg, interested.

W. Va., Welch—I. J. Rhodes, and others will build three-story and basement, brick garage.

N. C., Wilson—Atlantic Coast Line R.R. contemplates warehouse, 60x500-ft. E. B. Pleasant Wilmington, N. C., Ch. Engr.

Ga., Douglas—J. S. Scott will build warehouse. Estimated cost, $10,000.

Fla., Tampa—Wilson & Toomer Fertilizer Co., Jacksonville, plans plant at Tampa. Estimated cost, $125,000.

La., New Orleans—Bids will be received until Nov. 9 by city for asphalt plant at municipal repair plant. A. G. Hicks, Comr. Dept. Pub. Finances.

Ky., Ashland—Norton Iron Works will build coke byproduct plant.

Ky., Winchester—John W. Crone, Winchester, prepared plans for warehouse for Winchester Tobacco Warehouse Co. Estimated cost, $20,000.

Ohio, Carthage—(Cincinnati post office)—Pollock Steel Co. will build addition. Estimated cost, $10,000.

Ohio, Cincinnati—Modern Foundry Co. will build addition. Estimated cost, $10,000.

Ohio, Cincinnati—(Official)—Bids will be received about Nov. 1 by R. T. Wisenall, First National Bank Bldg., for ice plant at Price and Elberon Ave. for City Ice Delivery Co. Noted Oct. 14.

Ohio, Cleveland—Art Metals Mfg. Co. will build factory on East 61st St. Robert Cochran, Pres. Estimated cost, $10,000.

Ohio, Cleveland—S. H. Goldfein, Reserve Trust Bldg., prepared plans for three-story brick and steel factory for Miller & Becker Co., 5908 Woodland Ave. Estimated cost, $25,000.

Ohio, Columbus—(Official)—Bids will be received until Nov. 15 by Joseph N. Bradford, Ohio State University, for two-story shop building. Noted Oct. 14.

Ohio, Dayton—Heitman Co. plans 65x300-ft. cigar factory on North Dayton St. Estimated cost, $20,000.

Ohio, Mansfield—Mansfield News will build four-story addition on West Fourth St.

Ohio, Toledo—Toledo Machine & Tool Co. will build 100x400-ft. addition. Estimated cost, $200,000.

Ohio, Urbana—Urbana Packing Co. will make improvements. Estimated cost, $25,000. H. J. Rasmussen, Mgr.

Ohio, Youngstown—Youngstown Car Mfg. Co. contemplates addition to its plant on Wilson Ave. William Wilkoff, Pres.

Ind., Indianapolis—Packard Motor Car Co. will build five-story service station at 2340 Indiana Ave. Estimated cost, $125,000.

Ind., Marion—Plant of Sheron Drain Tile Co., recently destroyed by fire, will be rebuilt. Estimated cost, $30,000.

Mich., Flint—Chevrolet Motor Co., will build factory for manufacture of automobiles.

Mich., Flint—Flint Varnish Works plans factory addition. W. W. Mountain, Pres. and Gen. Mgr.

Mich., Muskegon—Campbell-Wyant & Cannon Co. has plans for foundry at Muskegon Heights. Estimated cost, $100,000.

Mich., Port Huron—Grand Trunk Ry. plans car repair shops. Estimated cost, $200,000.

Ill., Beardstown—Schultz, Baujan & Co. will build six-story, 35x100-ft. mill. Estimated cost, $50,000.

Ill., Chicago—Drying kilns of Chicago Maple & Oak Flooring Co., 2259 South Ashland Ave., recently destroyed by fire will be rebuilt. Estimated cost, $100,000.

Ill., Chicago—Chicago Steel Foundry Co., 3701 South Kedzie Ave. will build one-story, 120x150-ft. foundry. Julius Floto, Arch. Estimated cost, $20,000.

Ill., Peoria—Chic Mfg. Co. will build three-story and basement, 60x180-ft. factory at Adams and Maple St. Estimated cost, $40,000.

Wis., Menasha—International Wire Works Co., recently incorporated with $35,000 capital, will purchase Menasha Baseball Park and build plant.

Wis., Milwaukee—Hartman Machine Co. plans one- and two-story, 60x120-ft. factory at 29th St. and Meinecka Ave. Herbst & Hufschmidt, Arch.

Iowa, Sioux City—Henry F. Weare, Commercial Bldg., will build two-story garage. Estimated cost, $18,000. Paul C. Howe, Arch.

Minn., Duluth—Booth Fisheries Co. plans six-story cold storage warehouse on Lake Ave. S.

Minn., Minneapolis—Price Cereal Co. will build addition to its factory at 13th Ave. and Jackson St. Estimated cost, $60,000.

Minn., St. Paul—Sperry Realty Co. will build garage at Temperance and Jackson St. Estimated cost, $27,000.

Kan., Hutchinson—John Shire, Burrton State Bark Bldg., contemplates salt plant. Estimated cost, $25,000.

Kan., Wichita—Dunn Bros. Mercantile Co., 724 Main St., will build two-story reinforced-concrete warehouse.

Neb., Atkinson—Bids will soon be received for one-story and basement garage for E. McMonies. William V. Kerhan, 17th and Farnam Ave., Arch. Estimated cost, $15,000.

Mo., Jefferson City—Standard Oil Co. plans business building, warehouse and garage.

Mo., St. Louis—Preliminary plans prepared by Arthur G. McKee & Co., Engr., Cleveland, Ohio, for blast furnace for Missouri Iron Co. Estimated cost, $500,000.

Mo., Springfield—Western Cartridge Co. will build plant near Springfield. Estimated cost, $400,000.

Tex., Dallas—Linde Air Products Co., New York, N. Y., will build plant in South Dallas.

Tex., El Paso—O. H. Thorman & Co., prepared plans for three-story, 104x120-ft. warehouse for John Mulligan. Estimated cost, $55,000.

Tex., Marshall—Texas & Pacific Ry. will rebuild its shops recently destroyed by fire with loss of $1,000,000.

Tex., Temple—Clarence Webb and J. V. Clements will build garage at estimated cost of $20,000.

Colo., Loveland—Larimer County Coöperative Milk Condensery Co. will build factory. Estimated cost, $33,000.

Colo., Sugar City—National Sugar Mfg. Co. contemplates alfalfa mill.

Utah, Logan—Ogden, Logan & Idaho Ry. Co. plans car barns, repair shops, freight yards and passenger station. Estimated cost, $200,000.

Ariz., Gilbert—Lamara Alfalfa Milling Co. of Colorado plans alfalfa mill. Estimated cost, $15,000.

Ore., Astoria—Bids will soon be received by Newell, Gossett & Walsh, Spaulding Bldg., Portland, for superstructure for grain elevator for Port of Astoria Commission. Noted Oct. 14.

Ore., Willbridge—(Portland post office)—Shell Oil Co. will build addition.

Calif., Los Angeles—New York Motion Picture Co. will build motion picture plant at Culver City, near Los Angeles. Thomas H. Ince, Mgr. Estimated cost, $20,000.

N. B., Nelson Reserve—Frasers Ltd., Carlton St., Fredericton, N. B., contemplates sawmill at Nelson. Estimated cost, $80,000.

Ont., Hamilton—Mercury Mills, Ltd., 80 Park St., N., will build factory. Estimated cost, $250,000.

Sask., Ryerson—Saskatchewan Coöperative Elevator Co. will build grain elevator. Estimated cost, $10,000.

B. C., Port Moody—Port Moody Steel Works, Ltd., plans steel plant.

Bids In and Contracts Awarded

N. H., Keene—Contract awarded to JOSEPH A. GENN, Fall River, Mass., for 90x200-ft. factory for Wilkins Toy Co. Noted Sept. 30.

Conn., Bridgeport—(Official)—Contract awarded to DOWLING & BOTTOMLAY, Bridgeport, at about $25,000, for two-story, 87x78-ft. bakery for Bridgeport Bread Co.

Conn., New London—Contract awarded to H. R. DOUGLAS, Inc., for two- and three-story, 80x180-ft. factory for New London Ship and Engine Co.

Conn., Norwich—Contract awarded to ARCHIBALD TORRANCE, by Shetucket Co. at about $75,000, for two-story brick weave shop. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Among those figuring on one-story storage building at 438 West 18th St. for Consolidated Gas Co., 4 Irving Pl., are John T. Brady & Co., 103 Park Ave., McDermott & Hanigan, 103 Park Ave. and Frank Seery, 30 East 42d St. J. S. Maher, 431 West 14th St., Arch. Estimated cost, $20,000.

N. J., Jersey City—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., by Standard Oil Co. of New Jersey for three-story kiln building.

Penn., Monessen—Contract awarded to McCLINTIC MARSHALL CONSTRUCTION CO., Pittsburgh, at about $225,000, by Pittsburgh Steel Products Co. for addition to specialty department and another addition.

Penn., Philadelphia—Contract awarded to HERMAN VOIGHT, 26th and Thompson St., for two-story, 36x190-ft. garage for Finnesey & Kobler.

Md., Sparrows Point—(Baltimore post office)—Contracts awarded to RAYMOND CONCRETE PILE CO., Munsey Bldg., Baltimore, at $50,000, for concrete piling and foundation and to P. J. CUSHEN, 217 St. Paul St., for superstructure for machine shop for Maryland Steel Co. Estimated cost, $400,000. Noted Aug. 5.

W. Va., Charleston—Contract awarded to GEORGE BROS., Winchester, Va., by International Fruit Products Co., Baltimore, Md., for cider and vinegar plant. W. W. Clous, State Bank of Maryland, Baltimore Md., Pres.

N. C., Albemarle—Efird Mfg. Co. awarded contract to HOLDBROOKS & BRADSHAW, Salisbury, N. C., at about $500,000, for two-story, 107x360-ft. mill addition.

N. C., Winston-Salem—Contract for six-story 156x243-ft. reinforced-concrete building for R. J. Reynolds Tobacco Co., awarded to GENERAL FIREPROOFING CO., Pittsburgh, Penn. Estimated cost, $100,000.

Ala., Andalusia—Contract awarded to R. V. LaBARRE, Birmingham, at about $70,000, for packing plant for Andalusia Packing Co.

La., Henderson—Contract awarded to GARSON BROS., at about $40,000, for rebuilding machine shops of W. K. Henderson Iron Works & Supply Co.

Ohio, Cleveland—Contract awarded to J. T. RICHARDS CO., 822 Citizens Bldg., Cleveland, at $15,000 for factory at 3695 East 78th St. for C. Greve.

Ohio, Cleveland—Contract awarded to JAMES H. WELLS, Marshall Bldg., at about $60,000, for three-story service building at Euclid Ave. and East 20th St. for Hudson Stuyvesant Motor Co. Noted Sept. 30.

Ohio, Cleveland—Contract awarded to UHL JASTER CO., 1900 Euclid Ave., at about $100,000, for six-story warehouse on Rockwell Ave. for W. M. Pattison Supply Co., 215 East St. Clair Ave. Noted Sept. 2.

Ohio, Cleveland—Contract awarded to J. C. CAMPBELL CO., Cleveland, for one-story, 105x382-ft. addition to plant of Perfection Spring Co., Central and East 65th St. Noted Oct. 21.

Ohio, Cleveland—Contract awarded to CROWELL-LUNDORFF-LITTLE CO., 1951 East 57th St., at $180,000, for five-story, 60x500-ft. factory on West 73d St. for Standard Welding Co. Noted Oct. 14.

Ohio, Marion—Contract awarded to MT. VERNON BRIDGE CO., Mt. Vernon, for mill for Interstate Iron & Steel Co. Noted Oct. 7.

Ohio, St. Bernard—(Cincinnati post office)—Contract awarded to McGARVEY & CO., Gerke Bldg., Cincinnati, at about $21,000 for three-story, 100x140-ft. addition to factory of Emery Candle Works.

Ind., Thorntown—Contract awarded to GEORGE DAUBENSPECK, Carmel, at $20,000 for serum plant for Indiana Swine Breeders Association.

Mich., Owosso—Contract awarded to WORDEN-ALLEN CO., 72 West Adams St., Chicago, Ill., at $60,000, for addition to plant of American Malleable Co. Noted Oct. 21.

Ill., Alton—State Board of Administration awarded contracts for buildings at Alton State Hospital as follows: Bakery to A. W. STOOLMAN, Champaign, at $17,820; laundry to J. MOROFF & SON, Bradley, at $30,248; kitchen, store and dining room building to M. A. VOORHEES CONSTRUCTION CO., Alton, at $71,600.

Iowa, Des Moines—Contract for concrete and brick factory for New Monarch Machine Co. awarded to J. E. LUSANT & SON, Seventh and Chestnut St., Des Moines, at $11,000. Noted Oct. 14.

Neb., Omaha—Contract awarded to JOHNSON BROS., CO., Omaha, at about $30,000, for warehouse at 208 South Tenth St. for Swenson Bros.

Mont., Three Forks—Contract awarded to GLOBE CONSTRUCTION CO., Lewistown, for flour mill for Three Forks Milling Co.

Mo., Kansas City—Contract awarded to SWENSON CONSTRUCTION CO., 625 Finance Bldg., Kansas City, at $180,000, for superstructure of eight-story building at 20th and Grand Ave. for Firestone Tire & Rubber Co., Akron, Ohio.

Mo., St. Joseph—Contract awarded to BURREL CONSTRUCTION & ENGINEERING CO., Chicago, Ill., at $23,000, by Chicago, Burlington & Quincy R.R., for grain elevator. T. E. Calvert, Chicago, Ill., Ch. Engr.

Mo., St. Louis—Contract awarded to GAMBLE CONSTRUCTION CO., at $18,000, for warehouses at 3960 Duncan St., for J. Haniels Distilling Co.

Tex., Dallas—Contract awarded to C. C. GATEMAN & SON, Dallas, for two-story garage for L. C. Morris, El Paso. Estimated cost, $32,000.

Ore., Portland—Contract awarded to CAMP & DUPUY by W. C. Glafke & Co., at about $30,000, for two-story concrete commission house. Noted Sept. 9.

Ont., Ottawa—Contract awarded by Ottawa Dairy Co., Cooper St. to K. W. SHANTZ, care of Wegnier Machine Co., Perry and Mississippi St., Buffalo, N. Y., at $15,000 for ice making plant.

FEDERAL GOVERNMENT WORK

Proposed Work

Va., Front Royal—Fire station—Bids will be received by Constructing Quartermaster until 2 p.m., Nov. 15, for fire station at Remount Depot, Front Royal.

Ohio, Cincinnati—Abutments—Bids will be received until Nov. 1 at U. S. Engineer office, Room 415, Custom House, for reconstructing in concrete part of abutments at Dam No. 1, Muskingum River, Ohio.

Mich., Muskegon—Post Office and Custom House—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 29, for U. S. post office and custom house at Muskegon.

Tex., El Paso—Canal Work—Bids will be received at office of U. S. Reclamation Service, Mills Bldg., El Paso, until 2 p.m., Nov. 17, for excavation of Leasburg canal, Picacho branch canal and San Elizario feed canal.

Okla., Lawton—Grading—Bids will be received by Andrious A. Jones, First Asst. Secy., Dept. of Interior, Washington, D. C., until 2 p.m., Nov. 17, for grading Gore Blvd.

Colo., Ft. Logan—Building—Bids will be received until 11 a.m., Nov. 15, at office of Depot Quartermaster, Ft. Logan, for constructing basements under non-commissioned officers' quarters.

Ore., Salem—Building—Bids will be received by Cato Sells, Comr., Indian Affairs, Dept. of Interior, Washington, D. C., until 2 p.m., Nov. 15, for addition to brick assembly hall, Salem Indian School.

Bids In and Contracts Awarded

Mass., Boston—Flooring—Bids were received at Bureau of Yards and Docks, Navy Dept., Washington, D. C., for reinforced-concrete floor in pattern shop, Building 42, U. S. Navy Yard (a) price for floor slabs and fire proofing of trusses, beams and girders; (b) price for floor slabs, omitting fire proofing of trusses, beams and girders, as follows: F. L. McKenzie, 7 Water St., Boston, (a) $8,311, (b) $6,237; C. M. Leach, Boston, (a) $10,573, (b) $6,983; Marston & Leonard Co., Boston, (a) $8,807, (b) $7,030. Noted Sept. 30.

Del., Smyrna—Post Office—Contract for post office at Smyrna awarded to KING LUMBER CO., Charlottesville, at $24,521. Noted Aug. 26 and Oct. 7.

D. C., Washington—Interceptor—Contract for Section No. 5, Anacostia Main Interceptor, awarded to GEORGE HYMAN, Washington, D. C. Noted Oct. 7.

D. C., Washington—Paving—Bids were received Oct. 19 for paving various streets from: Washington Asphalt Block and Tile Co., Cranford Paving Co. and Atlantic Bitulithic Co. Noted Oct. 7.

Va., Fairfax—Road—Rowzie & Slocum, Alexandria, at about $14,000, submitted lowest bid for gravel roadway from a point near Gum Spring to public entrance to Mt. Vernon.

Va., Norfolk—Building—Bids were received Oct. 23 for building at St. Helena Navy Yard, Norfolk, as follows: R. R. Richardson & Co., Norfolk, $35,961; J. L. Robinson Construction Co., Baltimore, $39,000; Baker & Brinkley, Norfolk, $38,103. Noted Sept. 30.

Va., Norton—Post Office—Bids were received Oct. 19 for post office at Norton, (a) limestone, (b) sandstone, as follows: Richardson & Burgess, Washington, D. C., (a) $58,331; J. C. Clouse, Greensboro, N. C., (a) $59,875, (b) $61,500; Westchester Engineering Co., (a) $56,897, (b) $61,500. Noted Sept. 16.

Fla., Tampa—Attendants' Quarters—Contract for attendants' quarters, disinfecting shed, oil house and wharf at Tampa Bay, awarded to E. HART, Norfolk, Va., at $52,110. Noted Aug. 26 and Sept. 23.

Tenn., Covington—Post Office—Contract for post office at Covington awarded to ALGERNON BLAIR, Montgomery, Ala., at $34,765. Noted Oct. 14.

Ill., La Salle—Post Office—Contract for U. S. post office at La Salle awarded to CHARLES W. GINDELE, Chicago, at $67,000.

Wyo., Powell—Canal—Bids were received Oct. 20 for constructing first unit, Frannie Division, Shoshone Project, as follows: Schedule 1 (a), 2 (b), 3 (c), 4 (d), 5 (e): J. E. Hilton, Billings, Mont., (a) $48,315, (b) $33,330; (c) $32,295; Tibbs & Taggart, Colwey, Wyo., (a) $45,090, (b) $29,600, (c) $32,270; R. M. Lynn, Lovell, (b) $27.76; Three Bros. & Jolley, Lovell, (a) $46,499, (b) $31,440, (c) $32,270, (d) $11,179, (e) $58,365 Security Bridge Co., Minneapolis, Minn., (d) $10458, (e) $54,628; Billings Engineering & Contracting Co., Billings, Mont., (d) $10,520. Noted Sept. 23.

T. H., Honolulu—Piers—Contract for torpedo boat piers at naval station, Pearl Harbor, awarded to LORD-YOUNG ENGINEERING CO., Honolulu, at $285,000. Noted Oct. 21.

China, Peking—Storage Plant—Lowest bid submitted for ice making and cold storage plant (complete) at Peking was that of York Mfg. Co., York, Penn., at $7,795. Noted Sept. 30.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Plattsburg—Barge Canal Work—Bids will be received until noon, Nov. 9, by W. W. Wotherspoon, Supt. of Pub. Wks., Capitol, Albany, for barge canal terminals.

Fla., Port Tampa City—Canal—Hiram McElroy, Engr., making surveys for ship canal from Old Tampa Bay to Port Tampa Bay. Estimated cost, $12,000. J. G. Yeats, Mayor.

La., Rapides—Drainage—Election will be held in Rapides Parish, first and second wards, to vote on $34,000 bonds for drainage system.

Ind., Williamsport—Drain—Bids will be received by Horace H. Day, Constr. Comr., at office of B. H. Ringer, until 2 p.m., Oct. 30, for drain in Jordan and Steuben Townships.

Ind., Winamac—Ditches—Bids will be received by C. E. Paul, Constr. Comr., until Oct. 30, for W. D. Patterson Ditch No. 3, L. C. Hodgens Ditch and John Panatt Ditch.

Iowa, Spencer—Ditch—Bids will be received by County Auditor until Nov. 28 for Drainage Ditch No. 28.

Minn., Morris—Ditch—Bids will be received by C. R. Wollchan, County Audr., until 2 p.m., Nov. 3, for County Ditch No. 20. Estimated cost, $4,599.

Minn., Roseau—Ditch—Bids will be received by County Auditor until 2 p.m., Nov. 15, for excavating Judicial Ditch No. 62. George A. Ralph, Engr.-in-Charge. Noted Oct. 7.

Mont., Shepherd—Irrigation—Billings Bench Water Users Association will make improvements to its irrigation system. W. W. Clark, Billings, Pres.

Mo., Kansas City—Revetments—Hendrick & Cochrane, Kansas City, preparing plans for Kaw Valley Drainage Board for addition of 4,000 ft. to revetments.

Ark., England—Drainage—Bonds for $45,000 will be issued by Indian Bayou Drainage Commissioners for drainage work.

Tex., Donna—Irrigation—Bids will be received by D. H. Barr, Secy., Donna Irrigation District, until Nov. 1, for irrigation system. Estimated cost, $425,000. C. S. Clark, Engr. Noted Oct. 21.

Idaho, Boise—Irrigation—Surveys being made by Edward Hedden for irrigation system for Black Canyon Irrigation District.

Idaho, Boise—Irrigation—Thayer-Moore Co., Kansas City, Mo., will finance project for constructing Bruneau Irrigation Project in Owyhee County, plans for which have been approved by State Land Board.

Idaho, St. Anthony—Irrigation—North Fork Reservoir Co., recently incorporated with $200,000 capital by M. Hillman, T. F. Rouche and others, will build irrigation system.

Ariz., Yuma—Irrigation—A pumping plant to irrigate 1,400 acres will be built by D. F. Sanguinetti and George Michelson, owners of Painter Property in Yuma Heights.

Calif., Stockton—Irrigation—Citizens voted Oct. 16 to form West Side Irrigation District to irrigate 11,000 acres. Estimated cost, $185,000. Noted Sept. 2.

Bids In and Contracts Awarded

N. C., Shelby—Drainage—Commissioners of Buffalo Drainage District awarded contract for widening creek from Graham's bridge to South Carolina line to THOMPSON-MOSELY CO., Greensboro, at $6,000.

Fla., Tampa—Ditch—Contract awarded to FOSTER & COGGESHALL by County Commissioners for Carr ditch.

Ill., Albany—Drainage—Contract for excavating about 85,960 cu.yd. of earth for 6½ miles of drainage ditch awarded to STEVENS & LANG, Geneseo, at 10c. per cu.yd. Noted Sept. 30.

Iowa, Bedford—(Official)—Drainage—Contract for new channel for East Nodaway River in Drainage District No. 3 awarded to O. P. HERRICK, Des Moines. W. L. Holbrook, Engr. Noted Oct. 14.

Iowa, Panama—Ditch—Contract awarded to LANA CONSTRUCTION CO., at about $55,926, for ditch in Washington Township.

Minn., Breckenridge—(Official)—Ditch—Contract for County Ditch No. 20. Wilkin County, awarded to C. T. GLASSER, Minneapolis. Noted Oct. 7.

Minn., Mankato—(Official)—Ditch—Contract for Ditch No. 39, Blue Earth County, awarded to G. E. GILBERTSON, St. James, at $15,727. R. H. Allison, Engr. Noted Oct. 7.

Ark., Marion—Drainage—Contract awarded to E. M. FORD by Crittenden County Drainage District No. 5 for drainage work in Big Creek, about 18 miles.

MISCELLANEOUS

Proposed Work

Mass., Boston—Tunnel—Bids will be received until Nov. 11 for Dorchester Tunnel, Section G, between West Fourth St. and Old Colony Ave. Plans on file with Boston Transit Commission, 15 Beacon St. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—Pier—Sinking Fund Commission plans pier at foot of Fulton St. Estimated cost, $15,000.

N. Y., New York—(Borough of Brooklyn)—Station Finish—Bids will be received until Nov. 5 by Public Service Commission of First District for station-finish work on New Utrecht Ave. elevated line. Noted Oct. 21.

Miss., Biloxi—Breakwater—City Council contemplates breakwater.

Miss., Waveland—Seawall—Bids will be received until Dec. 1 by Commissioners of District No. 1, Hancock County, at office of Robert L. Genin, Main St., Bay St. Louis, for concrete seawall and filling on beach front at Waveland.

Ohio, St. Clairsville—Retaining Wall—Bids will be received by Emerson Campbell, County Audr., until 1 p.m., Nov. 1, for concrete retaining wall on National Rd. east of St. Clairsville.

Ohio, Wellsville—Dikes—Election to be held in November to vote on $50,000 bonds for dikes. Noted Oct. 14.

Wis., Ashland—Dock—Plans prepared for concrete ore dock for Minneapolis, St. Paul and Sault Ste. Marie Ry. Estimated cost, $3,000,000. C. N. Kalk, Minneapolis, Minn., Ch. Engr.

Iowa, Council Bluffs—Levee—Bids will be received until 10 a.m., Nov. 2 by Pottawatomie County for levee work in Lewis Township.

Mo., New Madrid—Levee Work—(Official)—Bids will be received until 2 p.m., Nov. 15, by St. John Levee and Drainage District of Missouri, Hunter Bank Bldg., New Madrid, for levee work. W. S. Edwards, Secy. (See adv.)

Tex., Temple—Fire-Alarm System—City will build fire-alarm system. Estimated cost, $10,000.

Bids In and Contracts Awarded

Mass., Winthrop—Seawall—Bids opened Oct. 20 by Harbor and Land Commission, Boston, for seawall: W. L. Miller Co., Alford St., Charlestown, $19,030; Dennis F. Crowley, Milton, $19,289, and Bay State Dredging Co., Boston, $19,804. Noted Oct. 14.

N. Y., Buffalo—Train Shed—Contract awarded to EASTERN CONCRETE STEEL CO., D. S Morgan Bldg., for train shed for Lehigh Valley R.R. Co., at Main and Scott St. Estimated cost, $150,000.

N. Y., New York—(Borough of Bronx)—Subway Station—Contract awarded to ALTORIA REALTY AND CONSTRUCTION CO., for subway stations along Jerome Ave. and White Plains Rd.

N. Y., New York—(Borough of Manhattan)—Park Work—Delson Contracting Co., at $11,121, low bidder for improving Isham Park.

N. J., Newark—Dock Improvements—Contract for improving dock awarded to J. & J. McSPIRIT, Jersey City. Noted Oct. 14.

Del., Wilmington—Pier—Contract for pier at Deepwater Point for Du Pont Powder Co. awarded to SNARE & TRIEST, New York, N. Y., and Philadelphia, Penn.

S. C., Charleston—Wharf—Contract awarded to CHARLESTON ENGINEERING AND CONSTRUCTION CO., at $55,000, for wharf and bulkhead at Tradd St.

Miss., Greenville—Levee—Contract awarded to BURT, BOND & McMURRAY, Benoit, at $32,000, for levee work.

Tex., Galveston—(Official)—Riprap—Contract for furnishing 20,000 tons of riprap awarded to HANLEY & FRIDNER, Galveston, at $2.64 per ton. Noted Oct. 14.

Calif., San Diego—Mortuary—Contract awarded to WINTERS & NICHOLSON, at about $50,000, for 100x150-ft. mortuary at Fourth and Ash St., for Johnson, Connell & Saum.

Calif., San Francisco—(Official)—Pier—Contract for pier at foot of Chestnut St. awarded to CLINTON CONSTRUCTION CO., San Francisco, at $283,230. Noted Oct. 14.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Proposed Work

Vt., Northfield—Norwich University plans to construct a new riding hall. Estimated cost, $40,000. Charles Spooner, Pres.

Mass., Boston—Plans prepared by Maginnis & Walsh, Arch., 100 Boylston St., for three-story, 150x150-ft. clubhouse at Boylston Rd. and Ipswich St. for Knights of Columbus Lodge. Estimated cost, $300,000. Note, Oct. 21.

Mass., Brookline—Andrews, Jacques & Rantoul, 50 Congress St., Boston, preparing plans for addition to high school. Noted Aug. 12.

Mass., Cambridge—Edward Radding, 274 Main St. Springfield, will build six-story, 100x150-ft. brick building at Charles River Rd. and Ash. St. Charles R. Greco, 8 Beacon St., Boston, Arch. Estimated cost, $150,000.

Mass., Danvers—Bids will be received until Nov. 5 for two-story and basement, 15x50-ft. brick school for Independent Agricultural School. Estimated cost, $75,000. Noted Sept. 16.

Mass., Fall River—Plans being prepared by J. M. Darling, Fall River, for Masonic Temple. Estimated cost, $120,000.

Mass., Fitchburg—Special City Council Committee on Isolation Hospital plan hospital at estimated cost of $40,000.

Mass., Holyoke—Bids will be received until 2 p.m., Oct. 29, by Board of Public Works for isolation hospital for city. W. J. Howes, Arch. Noted Oct. 21.

Mass., Hyde Park—Myer Dana will build 22 stores at River St., Hyde Park Ave. and Oak St. Estimated cost, $300,000.

Mass., Lawrence—City will build new hospital. Joseph McCarthy, Member Bldg. Com.

Mass., New Bedford—Bids will soon be received for three-story, 85x90-ft. central fire station at North and Pleasant St. Estimated cost, $100,000. James S. McIntyre, Arch.

Mass., Salem—Bids will be received about December for nine room brick school addition for city of Salem. Estimated cost, $75,000. Noted Oct. 7.

Mass., Springfield—Stone and marble church will be built at State and Orleans St. by Christian Scientist Society. Estimated cost, $100,000. S. S. Beman, Chicago, Ill., Arch.

Conn., Mansfield—Connecticut Training School for Feeble-Minded will construct buildings. Estimated cost, $200,000.

Conn., Milford—(Official)—Contract for brick and stone town hall will be awarded about Nov. 15. Estimated cost, $120,000. Noted Oct. 14.

Conn., New Haven—Plans being prepared by Coolidge & Shattuck, Arch., Ames Bldg., Boston, Mass., for music building for Yale University. Estimated cost, $250,000. Noted Sept. 30.

N. Y., Albany—Plans prepared for 14-story addition to Ten Eyck Hotel at State and North Pearl St. Estimated cost, $1,100,000.

N. Y., Buffalo—(Black Rock)—Black Rock Bank will build bank on Niagara St. near Tonawanda St., Black Rock. Estimated cost, $100,000. H. W. Andrews, Pres. Pratt & Lambert, Dir.

N. Y., Freeport—(Official)—Bids being received by C. E. Kern, Arch., 55 East Ave., Freeport, for two-story, 64x96-ft. country club house for Long Island Good Hearted Thespian Society, Inc.

N. Y., New City—Election will be held Nov. 2 in Rockland County to vote to appropriate $50,000 for Tuberculosis Hospital. C. W. Sherwood, Clk., Bd. of Supervs.

N. Y., New York—(Borough of Manhattan)—Plans prepared by Walter Haefeli, Arch., 245 West 55th St., for 16-story office building at Fourth Ave. and 28th St., for Hasco Bldg. Co., 245 West 55th St. Estimated cost, $500,000. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Kimball & Roosa, 71 Broadway, preparing plans for alterations to office building at Broadway and Rector St. for O. B. Potters Co., Inc., 71 Broadway.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received in December for 12-story building at 53 West 23rd St. for Naceloc Co., 125 West 56 St. William Birkmire, 1133 Broadway, Arch. Estimated cost, $300,000. Noted Sept. 23.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids are being received for seven-story, 99x100-ft., brick and steel building at 316 East 42d St., for New York College of Dentistry, 205 East 23d St. Shape & Bready, Inc., 220 West 42d St., Arch. Estimated cost, $250,000. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received about Nov. 1 by John J. Hearn Construction Co., 63 West 46th St., New York, for 12-story apartment at 152 West 86th St. Schwartz & Gross, 345 Fifth Ave., Arch. A. L. L. Construction Corporation, 67 West 46th St., owner. Estimated cost, $400,000. Noted Sept. 9.

N. J., Montclair—Old high school will be remodelled at estimated cost of $50,000.

N. J., Newark—Boys' Industrial School will build school at Dickerson and First St. Estimated cost, $125,000.

N. J., Paterson—Contract will be awarded about January 1 for four-story, 115x175-ft. school in Riverside Section. Estimated cost, $200,000. Fred W. Wentworth, Paterson, Arch. Noted Aug. 5.

N. J., Wildwood—Contract will soon be awarded for two-story school. Estimated cost, $65,000. Noted Sept. 2 and 30.

Penn., Bedford—Preliminary plans being prepared by H. E. Kennedy & Co., Arch., Home Trust Bldg., Pittsburgh, for three-story, 120x176-ft. tourist hotel for Lee Hoffman. Estimated cost, $100,000.

Penn., Freeland—New church will be constructed by congregation of St. John's Sloval Church. Estimated cost, $50,000.

Penn., Greencastle—Election will be held in November to vote on bonds for school on South Washington St.

Penn., Hazelton—(West Hazelton)—Citizens contemplate new school in West Hazelton.

Penn., Lewiston—Election will be held Nov. 2 to vote on $100,000 bonds for high school. J. J. Biemesderfer, Sec.

Penn., Philadelphia—Albert Kelsey, Arch., Perry Bldg., prepared plans for five buildings for Carson College for Orphan Girls, Witherspoon Bldg. Estimated cost, $300,000.

Penn., Philadelphia—A movement is on foot to raise a $500,000 fund to complete buildings at 18th and Bainbridge St. for Children's Hospital of Philadelphia.

Penn., Philadelphia—H. O. Wilbur & Sons has acquired a site at 245-47 New St. on which a reinforced-concrete building will be built. Estimated cost, $100,000.

Penn., Pittsburgh—Bids being received by Walter A. Cohen, Arch., Oliver Bldg., for five-story building at 1139-41 Pennsylvania Ave.

Penn., Scranton—J. J. Howley, Traders' Bank Bldg., prepared plans for alumni building for Sisters of the Immaculate Heart of Mary, Mt. St. Mary's Seminary. Estimated cost $100,000.

Penn., Shenandoah—Election will be held Nov. 2 to vote on $135,000 bonds for high school.

D. C., Washington—National School of Domestic Art and Sciences will build 11 buildings on Wisconsin Ave. Estimated cost, $500,000. Charles F. Wood, 92 Fendall Bldg., and Mary A. Zurhorst, interested.

Va., Norfolk—Plans being prepared by Browne & Tazewell, Arch., National Bank of Commerce Bldg., for armory. Estimated cost, $165,000. A. Salomnsky, Chn. of Bldg. Com.

W. Va., Huntington—J. Tracy Troeger contemplates motion picture theatre on Fifth Ave. Estimated cost, $65,000.

W. Va., Wellsburg—M. L. Wells, Arch., preparing plans for three-story, 69x98-ft. store and lodge building for Wellsburg Lodge No. 2-A. Estimated cost, $45,000.

N. C., Delma—Charles C. Benton, Wilson, prepared plans for school. Estimated cost, $40,000.

N. C., Durham—Election will be held to vote on $75,000 bonds for two schools on Moorehead school site. George W. Watts, Chn. School Trustees.

N. C., Greensboro—J. W. Long and others contemplate hospital. Estimated cost, $50,000.

N. C., Winston-Salem—Norfolk & Western R.R. Co. plans two-story union passenger station. Estimated cost, $500,000.

S. C., Greenville—City contemplates city hall and auditorium. Estimated cost, $75,000.

Fla., Clearwater—Citizens of Pinellas County will build county court house and jail.

Fla., Ft. Pierce—Mrs. E. C. McAllister will build eight-story steel hotel at 12th St. and Blvd. Estimated cost, $300,000.

Fla., Okeechobee—City will build school. Estimated cost $40,000. W. L. Foote, Trustee.

Fla., Orlando—Plans prepared for community building for Board of Trade. Estimated cost, $45,000.

Fla., Panama Park—H. J. Klutho preparing plans for eight-room school and additions to West Riverside School. Estimated cost, $110,000.

Fla., South Jacksonville—Plans being prepared for 16-room school and 12-room school. Mark & Sheftall, Arch. Estimated cost, $90,000.

Fla., Springfield—(Jacksonville post office)—Rutledge Holmes preparing plans for eight-room school in New Springfield, cost, $60,000, and two 4-room school at Grand Crossing and Highway.

Fla., Springfield—(Jacksonville post office)—R. A. Benjamin preparing plans for eight-room school in Northeast Springfield and wings to West Springfield school. Estimated cost, $100,000.

Miss., Marion—School Board contemplates $100,000 bonds for agricultural high school.

Miss., Pontotoc—Pontotoc County will build court house. Estimated cost, $75,000.

La., Jennings—Jefferson Davis Parish Police Jury will build court house. Estimated cost, $75,000.

La., Lake Charles—Citizens voted $125,000 bonds for high school.

La., New Orleans—Benevolent Knights of America will make repairs to club and later plan building at estimated cost of $125,000.

Tenn., Bristol—Election to be held to vote on $60,000 bonds for school rescinded. Noted Oct. 21.

Tenn., Memphis—W. T. Bailey, Arch., preparing plans for new church. Estimated cost, $50,000. S. E. Griggs, Lauderdale and Georgia St., Pastor.

Ky., Lexington—Election will be held Nov. 2 to vote $100,000 bonds for two schools. Noted Aug. 19.

Ohio, Antioch—Bids will be received until noon, Oct. 29, by J. W. Lentz, Clk. Perry Township, Bd. of Education, for high school. Albert S. Wilson, Senecaville, Arch.

Ohio, Cincinnati—Congregation of St. Andrews R. C. Church will build one-story, 81x180-ft. church. Estimated cost, $75,000. Samuel Hannaford & Son, 601 Hubert Bldg., Arch.

Ohio, Cincinnati—(Official)—Bids will be received until noon, Nov. 13, by Adjutant General of Ohio, Columbus, for alterations and repairs to armory at Helen and Burnet St.

Ohio, Cleveland—L. W. Thomas, Pythian Temple, prepared plans for remodeling John Anisfield Bldg. at East Ninth and Huron St. for Garfield Realty Co. Estimated cost, $40,000.

Ohio, Cleveland—Bids will be received about Nov. 15 by Cuyahoga County Commissioners, Cleveland, for detention building for boys on Franklin Ave. William S. Lougee, 500 Marshall Bldg., Arch. Estimated cost, $90,000. Noted Aug. 26.

Ohio, Cleveland—Cleveland Columbian Building Co. plans club house. John T. Dietz and Frank Dietz, Dietz Electric Co., interested. Estimated cost, $125,000.

Ohio, Columbus—James H. Butler will build 11-story hotel at Broad St. and Grant Ave. Estimated cost, $500,000.

Ohio, Dayton—Mutual Home & Savings Association will build 10-story reinforced-concrete building at Main and Second St. in spring. Estimated cost, $200,000.

Ohio, Marion—Odd Fellows Temple will build temple on West Center S. Estimated cost, $40,000.

Ohio, Middletown—Knights of Pythias, Lafayette Lodge No. 37, plan three-story, store, office and lodge building. Estimated cost, $50,000.

Ohio, Tiffin—First Presbyterian Church will build church. Estimated cost, $50,000.

Ohio, Toledo—Citizens will vote Nov. 2 on $1,000,000 bonds for school improvements. L. I. Donat, Clk.

Ind., Brazil—(Official)—Bids will be received about Dec. 1 for high school. Estimated cost, $70,000. Noted Oct. 21.

Ind., Terre Haute—Johnson & Miller, Ball Bldg., preparing plans for 16-room school at 25th St. and Fourth Ave.

Mich., Detroit—Plans being considered by County Commissioners for additions to county building. Estimated cost, $600,000.

Mich., Detroit—Plans are being considered for a five or six-story addition to Cass High School. Estimated cost, $359,000.

Mich., Grand Rapids—Williamson & Crow preparing revised plans for buildings for Calvin College. Estimated cost, $125,000.

Mich., Kalamazoo—Bids will be received by Kalamazoo State Hospital until Nov. 1 for Nurses' Home. Estimated cost, $56,000. Wernette, Bradfield, Mead Co., Grand Rapids, Arch. Noted Aug. 19.

Mich., Lansing—Directors of Lansing State Savings Bank will build eight-story building at Washington and Michigan Ave. Estimated cost, $150,000.

Mich., Manistique—Robinson & Campau, 449 Houseman Blk., Grand Rapids, preparing plans for high school. Estimated cost, $100,000.

Ill., Buckley—Lutherans will build church. Estimated cost, $50,000.

Ill., Chicago—Marshall & Fox will build five or six-story office building at Lincoln Parkway and Huron St.

Ill., Chicago—Contract will be awarded about Nov. 1 for two-story, 100x174-ft. building for Ninth Church of Christ Scientist. Carl Barkhausen, 121 Wisconsin St., Milwaukee, Wis., Arch.

Ill., Chicago—Baltimore & Ohio Chicago Terminal R.R. Co. will build two- and three-story freight sheds at 200 West 13th St. M. A. Long, Arch. Estimated cost, $65,000. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ill., Springfield—(Official)—Bids will be received about Dec. 1 for high school. W. B. Ittner, St. Louis, Mo., Arch. Noted Oct. 21.

Iowa, Des Moines—Cathedral will be built in 1916 by Masonic Order. Estimated cost, $300,000. Charles M. Cathcart, Member Bldg. Com.

Iowa, Des Moines—Interurban Ry Co. will build freight depot at Second and Center St. Estimated cost, $50,000.

Iowa, Harlan—Bonds for $120,000 voted by citizens for school. Noted Sept. 2.

Iowa, Washington—Citizens defeated $100,000 bonds for high school.

Minn., Duluth—(Official)—Bids will be received until 7:45 p.m., Nov. 5, by Board of Education for purchase of $100,000 bonds for schools. Charles A. Bronson, Clk. Bd. of Education.

Minn., Minneapolis—Hennepin County Medical Society plans 12-story office building. Estimated cost, $1,000,000.

Minn., North St. Paul—Citizens plan high school. Estimated cost, $40,000.

Minn., St. Paul—(Official)—Bids will be received until Nov. 16 by Board of Control, State Capitol, for Minnesota Historical Society building. Estimated cost, $500,000. Clarence H. Johnston, Arch. Noted Sept. 23.

Kan., Hiawatha—Bids will be received until 7:30 p.m., Nov. 1, by Board of Education for high school. Estimated cost, $60,000. J. H. Felt & Co., Kansas City, Mo., Arch. Noted Oct. 21.

Kan., Topeka—City will build junior high and grade school at Fifth and Lincoln St. Estimated cost, $100,000. L. M. Penwell, Pres. and Chn. Bldg. Com., High School.

Kan., Wichita—Bids are being received by Y. W. C. A. for four-story, 49x140-ft. brick building. Estimated cost, $65,000. A. A. Hyde and H. W. Darling, in charge.

Neb., Alliance—Plans being prepared for three-story and basement hotel for Burlington Hotel Co. Estimated cost, $60,000.

Neb., Hastings—(Official)—Contract for moving picture theatre and office building for William Brach will not be awarded until next spring. Noted Oct. 7.

Mont., Billings—Y. W. C. A. will remodel old Elks club. Estimated cost, $50,000.

Mo., Joplin—Election will probably be held Nov. 10 to vote on $350,000 bonds for schools. J. A. Becker, Pres. School Bd.

Mo., Kansas City—W. Hilton Smith, preparing plans for four-story and basement, 37x76-ft. hotel at East Ninth St. near Charlotte St. for Hoffman Bros. Investment Co. Noted Oct. 14.

Mo., Ozark—Election will be held Mar. 4, 1916 to vote on $50,000 bonds for new court house.

Mo., St. Joseph—Rudolph Meier, Arch., preparing plans for 20-room high school in North Side. Estimated cost, $175,000.

Mo., Springfield—A theater estimated to cost approximately $65,000 will be constructed on the Square. J. L. Carlisle, Kansas City, interested.

Ark., Little Rock—Plans being prepared by W. T. Bailey, Arch., Memphis, Tenn., for Y. M. C. A. building. Estimated cost, $60,000.

Tex., Altavista—Bids will soon be received for 12-room school. Estimated cost, $60,000.

Tex., Houston—City will sell $200,000 bonds for school construction. Benjamin Campbell, Mayor.

Colo., Colorado Springs—Santa Fé R.R. Co. plans station. Estimated cost, $150,000.

Utah, Salt Lake City—Roman Catholic Church plans parochial school. Estimated cost, $150,000.

Ariz., Phœnix—Kibbey & Lescher prepared plans for addition to courthouse.

Wash., Bellingham—Contract will be awarded about Dec. 1 for addition to North Side High School. Estimated cost, $120,000. Noted Aug. 12.

Wash., Seattle—Citizens will vote on $200,000 bonds for West Seattle high school. Edgar Blair, School Arch.

Ore., Portland—W. W. Lucius, Lewis Bldg., Portland, retained by Alisky Estate to prepare plans for rebuilding structure at Third and Morrison St. Estimated cost, $50,000.

Ore., Portland—Bids will be received in November for auditorium for city. Estimated cost, $500,000. Whitehouse & Fouilhoux, Wilcox Bldg., Portland, Arch. Noted Aug. 12.

Calif., Sacramento—Bids will soon be received for hall of justice building for city. Shea & Lofquiest, Arch. Estimater cost, $208,000. Noted July 29.

Calif., Woodland—H. A. Weeks, San Francisco, preparing plans for courthouse for Yolo County. Estimated cost, $200,000.

BARGE CANAL WORK, ALBANY, N. Y.

Contract No. 40

Bids were received Sept. 14 by W. W. Wotherspoon, State Supt. of Pub. Wks., Albany, for Barge Canal Work, Contract No. 40, from (A) J. E. Bishop, Syracuse; (B) Champlain Engineering & Construction Corporation, Saratoga Springs; (C) Eastover Construction Co., Inc., Utica, (D) Holler & Shepard, Rochester. The item bids were as follows:

	A	B	C	D
27,000 cu.yd. excavation	$0.35	$0.38	$0.48	$0.38
6,000 cu.yd. forming embankment	.10	.12	.14	.11
860 cu.yd. gravel surfacing	1.35	1.50	1.80	1.40
3.4 M ft. b.m creosoted lumber	65.00	65.00	75.00	65.00
400 lin.ft. foundation piles	.29	.35	.42	.32
3,750 lin.ft. 12-in. reinforced concrete piles	2.35	2.55	1.50	2.30
50 cu.yd. second class concrete	7.43	8.00	9.60	7.00
190 cu.yd. first class reinforced concrete	11.96	13.50	10.00	12.75
55 cu.yd. second class reinforced concrete	8.94	9.00	9.00	8.00
150 lin.ft. 36-in. reinforced concrete pipe	4.00	5.00	6.00	4.75
18,000 lb. structural steel	.04	.04	.04	.04
14,200 lb. metal reinforcement	.03	.03½	.03½	.03
2,000 lb. iron castings plain	.04	.04	.04	.04
448 lin.ft. wooden fence	.22	.25	.52	.25
65 fender fastenings	1.21	1.20	1.20	1.20
Extended totals	$25,515	$27,140	$26,658	$26,438

PAVING—ST. CHARLES, ILLINOIS

Bids were received for paving East Main St., West Main St. and parts of other connecting streets as follows: (A) Engineer's Estimate; (B) Western Improvement Co., Racine, Wis.; (C) Arwin E. Price, Elgin, Ill.; (D) Logan-Giertz Construction Co., Elgin, Ill.; (E) James Cape & Sons Co., Racine, Wis.; (F) H. H. Enbody, Aurora, Ill.; (G) James A. Sockley Co., Chicago, Ill. The item bids were as follows:

	A	B	C	D	E	F	G
17,670 sq.yd. vitrified brick pavement, 6-in. cement concrete base, 2-in. sand cushion, joints filled with asphalt filler, surface dressed with sand and subgrade complete	$2.03	$1.92	$1.98	$1.95	$1.96	$1.99½	$2.09
8,690 sq.yd. vitrified brick pavement 5-in. cement concrete base, 2-in. sand cushion, joints filled with asphalt filler, surface dressed with sand and sub-grade complete	1.98	1.84	1.90	1.92	1.90	1.97	2.02
10,850 lin.ft. cement concrete curb on layer of bank gravel, subgrade complete	.48	.38	.43	.40	.45	.46	.30
400 lin.ft. 10-in. vitrified sewer laid and constructed complete	.50	.60	.60	.40	.40	.50	.75
16 inlets with c.i. covers placed and completed	15.00	15.00	15.00	12.50	20.00	15.00	15.00
19 combined false curb and gutters with c.i. plate, 8 ft. long	10.00	8.00	9.00	8.00	10.00	10.00	10.00
72 combined false curb and gutter with c.i. plate, 5 ft. long	6.00	6.00	5.00	5.00	6.00	6.00	6.00
36 oak headers in place	14.72	8.00	41c. per ft.	.....	10.00	14.72	12.00
Adjustment of existing manhole and C. B., extra concrete per cu.yd.	.....	6.50	4.60	.....	8.00	5.00	15.00
Totals	$59,901	$55,391	$86,698	$66,958	$57,410	$58,614	$59,332

Que., Montreal—Marcil Trust Co. will build one-story granite building on Victoria Sq. Estimated cost, $300,000.

Bids In and Contracts Awarded.

Mass., Boston—(Roxbury)—(Official)—Bids received Oct. 19 for addition to High School of Practical Arts: John J. Flynn, 319 Washington St., $69,736, and McNeil Construction Co., 201 Devonshire St., $72,731.

Mass., Haverhill—Contract awarded to KELLY BROS., 30 Pleasant St., Haverhill, for Masonic Temple alterations.

Conn., New London—(Official)—Contract awarded to H. R. DOUGALS CO., Inc., for addition to Griswold Hotel. Noted Oct. 21.

N. Y., Harriman—Contract awarded to HARRIMAN INDUSTRIAL CORPORATION, at $40,000, for school.

N. Y., New York—(Borough of Bronx)—(Official)—Contract awarded to McDERMOTT & HANIGAN, Inc., 103 Park Ave., New York, for 100x100-ft. apartment at 8 Woodycrest Ave. for Woodycrest Bldg. Corporation.

N. Y., Rochester—Contract awarded to A. FRIEDERICH & SONS CO., Rochester, for Y. M. C. A. branch building. Estimated cost, $50,000. Noted Sept. 2.

N. J., Atlantic City—Contract awarded to ALEX CHAMBLEY, 243 South Tenth St., Philadelphia, Penn., for three-story, 90x150-ft. addition to school. Noted Sept. 2.

N. J., Elizabeth—(Official)—Contract awarded by Board of Education to JOHN LAURIE, JR., New York, N. Y., at $84,877, for Madison Ave. school. Noted Oct. 14.

N. J., Jersey City—(Official)—Contract awarded to JOHN T. BRADY CO., 103 Park Ave., New York, N. Y., at $900,000, for Hudson County jail. J. T. Rowland, Jersey City, Arch. Noted Oct. 21.

N. J., Newark—W. G. Sharwell & Co., Newark at $84,989, low bidder for Milford school on 18th Ave.

N. J., Trenton—(Official)—All bids received Oct. 19 by Alfred Gaskill, Dir. of Dept. of Conservation and Development for laboratory rejected. Noted Oct. 7.

Penn., Philadelphia—(Bustleton)—Melody & Heating, Bailey Bldg., at $40,410 low bidder for two-story school addition.

Penn., Scranton—Contract awarded to LUDWIG T. STIPP, People's Bank Bldg., for nine-story, 42x78-ft. hotel addition for Casey Hotel Co. Noted Sept. 30.

W. Va., Charleston—Bids were received for two-story addition to Kanawha County courthouse as follows: G. F. Gates, $49,500; Caldwell & Drake, $53,125; Central Engineering Co., $54,000. Noted Sept. 16.

Ohio, Findlay—Contract awarded to J. G. BULLINGER, Toledo, at $90,000, for infirmary for Hancock County.

Ohio, Marion—Board of Education awarded contract for high school to W. C. HANDSHY & SON, Zanesville, at $84,773. Marriott, Allen & Hall, Columbus, Arch. Noted Sept. 23.

Ind., Evansville—(Official)—Contract for freight depot for Illinois Central R.R. awarded to GEORGE B. SWIFT & Co., Chicago, at $75,000. A. S. Baldwin, Ch. Engr. Noted Oct. 21.

Wis., De Pere—Contract for substructure of four-story 65x180-ft. building for Premonstratension Fathers awarded to A. F. BEAUREGARD, De Pere. Estimated cost of building, $100,000.

Wis., Watertown—Contract for high school awarded to BAILEY-MARSH CO., Minneapolis, Minn. Estimated cost $125,000. Noted Sept. 23.

Iowa, Rock Rapids—(Official)—Contract awarded to A. M. OLSON CONSTRUCTION CO., Brookins, S. D., at $107,500, for three-story and basement courthouse. Noted Oct. 7.

Iowa, Sioux City—Contract awarded to COOMER & SMALL, United Bank Bldg., for Elks club house at Eighth and Jones St. Estimated cost, $75,000. Noted Sept. 9.

Minn., Minneapolis—Contract awarded to J. L. ROBINSON & CO., at $55,000, for two-story brick addition to Schiller school at Grand and 26th Ave.

Minn, Minneapolis—(Official)—Contract for theatre for M. L. Cohen & Co., 239 Nicollett Ave., awarded to FLEISHER-ROSE CONSTRUCTION CO., 515 Plymouth Bldg., Minneapolis, at $41,000. Noted Sept. 23.

S. D., Brookings—(Official)—Contract for four-story dormitory for State College awarded to WOLD CONSTRUCTION CO., Brookings, at $72,000. Noted Oct. 7.

Mont., Baker—Contract awarded to MONEKE BUILDING CO., Fargo, N. D., for court house for Fallon County.

Mont., Havre—Contract awarded to LEASE & RICHARDS, Great Falls, at $63,000, for Masonic Temple at Third Ave. and Third St. Noted Sept. 2.

Mo., Kansas City—Contract awarded to PRATT-THOMPSON CONSTRUCTION CO., 500 Republic Bldg., at about $200,000, for additions to German Hospital at 24th, McCoy and Holmes St.

Mo., Webster Groves—Contract awarded to JOHN GREWE CONSTRUCTION CO., 947 Century Bldg., St. Louis, at about $175,000, for two schools.

Tex., Dallas—Contract awarded to JONES & HARRINGTON, Ft. Smith, Ark., at $59,150, by Board of Education for Winnetka school.

Tex., Dallas—Contract awarded by Board of Education to HOLMBOE CO., Oklahoma, Okla., for high school in Oak Cliff at $113,000.

Utah, Salt Lake City—Contract for normal and industrial building for University of Utah awarded to AUGUST RUDINE. Estimated cost, $55,000. Noted Sept. 30.

Wash., Tacoma—Contract awarded to CORNELL BROS., Savage-Scofield Bldg., Tacoma, at about $75,000, for hotel for Savage-Scofield Co. and others. Heath & Gove, Tacoma, Arch.

Calif., Ventura—(Official)—Bids received Oct. 18 by W. F. McClure, State Engr., Sacramento, for two cottages and detention building for California State School for Girls: Chirhart & Nystedt, $39,595; The Kling Co., $43,333, and F. O. Engstrum Co., $45,987. Noted Oct. 7.

Ont., Ottawa—Contract awarded to NORCROSS BROS. CO., 103 Park Ave., New York, N. Y., for eight-story office building on Rideau St. for C. Jackson Booth.

BULKHEAD—PHILADELPHIA, PENN.

Bids were received Aug. 16 by the Department of Wharves, Docks and Ferries for the construction of a temporary bulkhead in the Schuylkill River from: (A) EDWIN H. VARE, Lincoln Bldg., Philadelphia (awarded contract); (B) Pugh & Hubbard Co., Witherspoon Bldg., Philadelphia; (C) Peoples Bros., 15th and Callowhill St., Philadelphia; (D) J. E. Brenneman, 1523 South Front St., Philadelphia. The item bids were as follows:

	A	B	C	D
800 bearing piles	$10.00	$8.88	$10.50	$12.70
1,600 batter piles	10.60	10.99	16.00	12.90
50 pile shoes	1.50	1.25	1.00	1.70
4,000 6-in. sh. piles	9.00	9.42	10.95	12.45
67 M. ft. yellow-pine lumber	65.00	55.00	45.00	82.50
4,000 galvanized iron caps	.10	.15	.50	.14
800 galvanized iron caps, piles	.22	.37½	.90	.55
Extended totals	$65,966	$67,915	$83,585	$87,212

The George A. Boyden Pump Co., Baltimore, Md., recently capitalized at $1,800,000, will erect a large plant in the northwest section of Baltimore for the manufacture of pumps. It also plans to establish subsidiary factories in Kansas City and San Francisco. The following are the officers of the company: George A. Boyden, Pres.; J. Calvin Boyden, Vice-Pres.; Janon Fisher, Chn. of the Executive Committee; Harry Carter Irwin, Secy.; and George A. Boyden, Jr., Mechanical Engineer Supt. Edwin H. Brownley and William L. Marbury are acting as counsel. The present offices are located in the Maryland Casualty Bldg., Baltimore.

BARGE CANAL WORK, ALBANY, N. Y.

Contract L

Bids were received Sept. 14 by W. W. Wotherspoon, State Supt. of Pub. Wks., Albany, for Barge Canal Work, Contract L from (A) Cleveland & Sons Co., Brockport; (B) Oswego Construction Co., Inc., Fulton; (C) I. M. Ludingtons Sons, Inc., Rochester; (D) Chesley, Earl & Heimbach, Inc., Buffalo; (E) Vedder Construction Co., Delevan; (F) Grumer & Hallenbeck, Harriman; (G) R. T. Ford Co., Rochester; (H) Frank L. Cohen, Buffalo; (I) Lupfer & Remick, Buffalo; (J) Stanley Construction Co., Buffalo; (K) Larkin & Sangster, Seneca Falls; (L) Scott Bros., Rome; (M) Sherman-Stalter Co., Lyons; (N) Flood & Van Wirt, Hudson Falls. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
21,000 cu.yd. excavation	$0.60	$0.40	$0.50	$0.65	$0.60	$0.62	$0.60	$0.55	$0.60	$0.60	$0.60	$0.42	$0.60	$0.77
500 cu.yd. lining	1.50	1.80	1.50	1.50	2.00	1.40	1.25	1.50	1.50	1.25	1.50	1.35	1.65	1.80
16.5 M. f.b.m. sawed lumber	60.00	78.00	50.00	60.00	60.00	65.00	50.00	50.00	55.00	50.00	60.00	58.00	65.00	60.00
3,500 cu.yd. second-class concrete	6.80	6.00	6.50	6.50	6.80	6.25	7.00	7.00	6.25	8.00	6.60	6.00	7.00	7.00
106 cu.yd. first-class reinforced concrete	12.00	14.40	12.00	12.00	12.00	12.00	10.00	12.00	14.00	11.00	12.00	11.00	12.00	12.00
590 cu.yd. fourth-class rip-rap	2.50	3.00	2.50	2.50	2.00	2.50	2.00	2.50	2.00	2.00	2.00	1.30	2.00	2.00
344,000 lb. structural steel	.04¼	.048	.04¼	.03	.04	.04	.04	.04	.0458	.03¾	.038	.0378	.042	.038
16,500 lb. metal reinforcement	.03	.036	.03	.03	.03	.03	.02½	.03	.03¼	.03	.03	.0315	.03	.03
95 sq.yd. cobblestone gutter	1.25	1.50	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.00	1.25	1.20	1.25	.50
265 sq.yd. brick pavement	2.25	2.70	2.25	2.25	2.25	2.25	2.00	2.00	2.25	2.00	2.50	2.35	2.25	2.00
1,240 lin.ft. wooden fence	.25	.30	.25	.25	.25	.25	.30	.25	.25	.25	.25	.27	.25	.25
137 lin.ft. lattice railing	1.75	2.10	1.75	1.75	1.75	1.75	1.75	2.00	1.75	1.50	2.10	1.70	1.75	1.75
Removing existing superstructure at Gorham street (lump)sum)	100.00	120.00	100.00	100.00	1.00	100.00	100.00	100.00	120.00	100.00	50.00	100.00	50.00	100.00
12 oil signal lamps	15.00	18.00	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Maintaining navigation at Gorham St. (lump sum)	50.00	25.00	100.00	100.00	100.00	100.00	100.00	1.00	1.00	100.00	1.00	1.00	1.00	50.00
Maintaining navigation at Kingdom Rd. (lump sum)	50.00	25.00	100.00	100.00	100.00	100.00	100.00	1.00	100.00	100.00	1.00	1.00	1.00	50.00
Timber towpath at Gorham St. lump sum)	200.00	25.00	250.00	150.00	250.00	250.00	250.00	50.00	1.00	250.00	1.00	1.00	1.00	75.00
Timber towpath at Kindom Rd. (lump sum)	250.00	25.00	400.00	200.00	400.00	400.00	400.00	100.00	1.00	400.00	1.00	1.00	1.00	125.00
Cofferdams, pumping, bailing and draining (lump sum)	10,000	12,000	10,000	8,250	8,000	7,500	6,000	12,000	12,000	3,000	8,500	11,432	7,000	7,500
Total	$68,956	$65,943	$65,942	$62,047	$65,357	$63,564	$63,229	$68,292	$68,797	$63,062	$63,572	$59,928	$64,891	$67,786

Meeting of Hydrated Lime Manufacturers

In January, 1915, the National Lime Manufacturers opened at Pittsburgh an office known as the Hydrated Lime Bureau, the purpose of which was to promote the use of hydrated lime in concrete, mainly by acting as a central information office from which all inquiries as to the use of hydrated lime could be promptly and accurately answered. It is thought that the scheme has been very successful and that engineers and contractors are becoming much better informed through the bureau of the advantages of hydrated lime in concrete work. For the coming year it is hoped to extend the operation of the Bureau and to that end a meeting of all the hydrated lime manufacturers in the United States has been called for Dec. 1, 1915, to be held at the office of the Bureau. It is the intention of the Hydrated Lime Manufacturers to make this Bureau of increasing value to the engineering profession, and it is hoped that every manufacturer of this material will attend this meeting and be prepared to support the movement.

The Concrete Form Co., Inc., Syracuse, N. Y., has been awarded the highest award at the Panama-Pacific Exposition for the Whaten Form, a guaranteed collapsable steel culvert form used in road construction.

The J. F. Mundy Hoisting Engine Co., Newark, N. J., has purchased the business of J. F. Mundy and will continue business under the new name. R. L. Strickland is Secy. and Treas.

W. F. Hardy, for the past 11 years connected with the Diamond Rubber Co. and the B. F. Goodrich Co., has been appointed Sales Mgr. of the Boston Belting Co., 84 Linden Park St., Boston, Mass.

The Goulds Mfg. Co., Seneca Falls, N. Y., manufacturer of pumps and hydraulic machinery, will open a branch office at 111 No. 3d St., Philadelphia, Penn., on Oct. 1. The company has purchased the business of H. E. Trotman at this address, who has been the distributor of pumps for this company. E. S. Jenison, formerly with the Canadian Fairbanks-Morse Co., Ltd., Montreal, has been appointed Mgr., and F. G. Kramer, formerly in the employ of H. E. Trotman, will be Assist. Mgr. J. B. Trotman will continue with the Goulds Mfg. Co.

The E. B. Crosby Construction Co., formerly of Muskogee, Okla., has moved to 306 West Ninth St., Kansas City, Mo. This firm has recently completed a $75,000 high school building at Boonville, Mo., for which J. H. Felt & Co., Grand Avenue Temple, Kansas City, Mo., was Arch.

The H. F. Harris Engineering Co. have moved from 168 Osborne St., Bridgeport, Conn., to the corner of Broad and John St., Bridgeport, and are installing additional machinery as fast as it can be obtained.

The Marine Oil Engine Co., of New York, has just been incorporated with a capital of $200,000 for the purpose of carrying on a business of installing oil engines, both in ships and in either municipal or private power plants. Mr. W. R. Haynie, U. S. Manager for Bolingers Co. of Stockholm, Sweden, 50 Church St. is the moving spirit in the concern.

CATALOG NOTICES

General Electric Co., Schenectady, N. Y. Pamphlet. Holophane refractors for street lighting. Illustrated, 30 pp., 6x9 in.

Westinghouse Electric & Mfg. Co., E. Pittsburgh, Penn. Circular No. 1536. Alternating current water-wheel generators. Illustrated, 32 pp., 8x10½ in. Special Publication No. 1562. Railway equipments and locomotives in the Far West. Illustrated, 48 pp., 8½x11 in.

The Scranton Pump Co., Scranton, Penn. Bulletin No. 103. Jet condensers and vacuum pumps. Illustrated, 12 pp., 6x9 in.

K-G Kelding & Cutting Co., 556 West 34th St., New York. Catalog. Oxy-acetylene, oxy-blaugas welding and cutting equipment. Illustrated, 24 pp., 4½x7½ in.

American Steel Dredge Co., Ft. Wayne, Ind. Bulletin No. 10. "Single-Line" revolving steam shovels. Illustrated, 8 pp., 8½x11 in.

HIGH SERVICE SYSTEM, COATESVILLE, PENN.

Bids were received Oct. 7 for the construction of a high service system at Coatesville from (A) PARTRIDGE & BURKE, Hohokus, N. J. (awarded contract); (B) H. C. Brooks Co., Martinsburg, W. Va.; (C) Dunleavy Bros., Coatesville; (D) Pugh & Hubbard, Philadelphia, Penn.; (E) Thomas J. Radley Co., Inc., New York, N. Y. The item bids were as follows:

	A	B	C	D	E
12.56 tons 10-in. Class A pipe	$24.75	$26.50	$26.15	$26.50	$28.00
30.56 tons 10-in. Class B pipe	24.75	26.50	26.75	26.50	28.00
62.75 tons 6-in. Class B pipe	24.75	26.50	26.75	27.05	29.00
243.0 tons 8-in. Class O pipe	24.75	26.50	26.75	27.05	28.00
24.15 tons 6-in. Class B pipe	24.75	26.50	26.75	27.05	28.00
13.6 tons 6-in. Class C pipe	24.75	26.50	26.75	27.05	28.00
10.2 tons c.i. specials	60.00	65.00	60.00	58.80	65.00
1,390 lin.ft. 10-in. c.i. pipe laid	.35	.35	.35	.38	.45
11,980 lin.ft. 8-in. c.i. pipe laid	.28	.29	.35	.36	.37
2,170 lin.ft. 6-in. c.i. pipe laid	.23	.27	.35	.34	.35
1 10-in. gate valve	25.75	27.50	30.00	28.50	39.00
8 8-in. gate valves	19.50	21.00	20.00	17.60	25.80
18 6 in. gate valves	14.00	16.00	12.75	12.00	17.10
30 hydrants with gate valve	45.00	50.00	48.00	44.50	50.00
200 cu.yd. excess excavation	.75	1.00	1.25	1.50	.50
3,000 lin.ft. macadam pavement	.10	.10	.05	.20	.17
120 lin.ft. brick pavement	.34	.60	.25	1.75	.45
250,000 gal. water tank	3,700.00	3,750.00	3,600.00	3,685.00	4,600.00
Equipment for pumping station	1,456.00	1,075.00	1,284.00	1,740.00	2,500.00
Venturi meter	650.00	725.00	600.00	706.00	652.00
Superstructure for pumping station	600.00	700.00	960.00	1,720.00	700.00
177 cu.yd. earth excavation	.45	1.00	.60	1.00	.50
7 cu.yd. Class A concrete	8.00	9.00	8.00	15.00	6.50
55 cu.yd. Class B concrete	9.00	8.00	6.00	10.00	6.50
140 lb. of steel reinforcement	.05	.06	.04	.04	.05
Extended totals	$23,834	$24,943	$25,619	$28,127	$28,968

The Detroit Products Co., Detroit, Mich., to celebrate a record-breaking September business, about 30 of its members were the guests of J. G. Rumney, Gen. Mgr., at a banquet given Oct. 19 at the Detroit Athletic Club. The September output of the company including both fenestra solid steel windows and also Detroit self lubricated springs also made by the company was the biggest in the history of the company. And from present indications the remaining months of 1915 are going to be no exception to the rule. The September record was a combination of a series of record-breaking months throughout the year. At the banquet, speeches were made by Walter S. Russel, Pres. of the Russel Wheel and Foundry Co., of Detroit, and by R. S. Drummond, Vice-Pres. of the Detroit Steel Products Co.

American Lumber Used in Portugal—Most of the foreign lumber used in Portugal is imported from Sweden and the United States, especially from the Gulf ports, Pensacola, Apalachicola, Gulfport, New Orleans, and Galveston. Pitch pine, oak, ash, and satinwood are the kinds of American lumber in demand. Pitch pine is used for roof building and flooring, oak and ash for building railway cars and trucks, and satinwood for furniture making. The present price of pitch pine in Lisbon is between 56 and 62c. per cu.ft., as compared with 42c. before the war. The difference is not due to an increase in the price of the lumber itself, but to the exorbitant freight rates and the unusually low exchange. The average sizes of pitch pine imported are 27½ and 30 cu.ft. The usual sizes of Swedish lumber imported are 3x9 and 3x10, employed mainly for beams and for making doors and windows. The price, owing to present circumstances, has increased about 70 per cent. The stock of foreign lumber on hand is very small, but dealers state that they have no desire to increase it, in view of present conditions. The cheap native lumber, which sells for about 25c. per cu.ft., is being used extensively, thus replacing to a considerable extent the imported product. Occasionally small shipments of pitch pine from New Orleans are received, to supply the most urgent demands of the market.

Dodwell & Co., Ltd., 135 Front St., New York, N. Y., announces the removal of its office to 50 Broad St.

The Hydraulic Press Mfg. Co., Mount Gilead, Ohio, received the grand prize and gold medal for hydraulic presses at the Panama-Pacific International Exposition. This company has issued a folder on "Maintaining a Precedence in Exposition Awards."

Brick and Tile Produced in the United States in 1914 were valued at $164,986,983, according to Professor Middleton, of the United States Geological Survey. Clay products are made in every state, Ohio leading, Pennsylvania second, and New Jersey third. The strip of land along Hudson River from New York City to Cohoes, including Bergen and Middlesex Counties, in New Jersey, is the greatest brick-making district in this country and probably in the world, and New York City is the leading common-brick market in the United States, about one billion brick being used there annually. In 1914 there were marketed from this region 888,266,000 common brick valued at $4.90 per M. Of these, New Jersey produced 209,146,000 brick valued at $5.10 per M.

Wood-Block Paving in Great Britain is in general use in nearly all of the several hundred boroughs the population of which is greater than 60,000, according to the weekly bulletin of the Canadian Department of Trade and Commerce. In a few prominent cities, such as Glasgow, Dublin, Belfast and Liverpool, wood-block paving is used only in front of hospitals and schools. It is said that the hard pavements in these cities have not been replaced by wood because of the practice of shoeing draft horses with sharp calks, which would tear up the wood blocks. Without exception the wood-block pavement laid in Great Britain at the present time is Swedish or Russian redwood (Pinus sylvestris). The specifications issued by the municipal engineers throughout the country admit this wood and no other, the one exception being the specification for the Borough of Westminister, London, which admits Canadian spruce, red pine or Douglas fir. Swedish and Russian redwood, sawed in 4-in. blocks and given an 8- to 10-lb. treatment of creosote, gives a pavement that will last in London 20 yr. under light traffic and 12 yr. under heavy traffic. The English specifications are not especially rigid. Hearts are admitted, as are also knots, unless the latter are loose or on the upper end of the blocks. There is no rigid adherence to any rule regarding the rate of growth. The Russian redwood is preferred to the Swedish because it is slower growing and therefore harder, but blocks are admitted with six or even four rings to the inch. There is no rigid exclusion of sapwood, some specifications admitting as much as 18% of sap. Timber used by Great Britain for paving in 1913 was approximately 60,000,000 ft.

Contracts to Be Let

Bids received until Nov. 9, 1915.

Sewerage and Sewage Disposal

Yorktown Heights, N. Y.

Sealed proposals for Sewerage and Sewage Disposal Plant at the New York State Training School for Boys, Yorktown Heights, N. Y., will be received by Mr. William B. Osgood Field, President of the Board of Managers, New York State Training School for Boys, Yorktown Heights, N. Y., at the Department of Architecture, Room 1224 Woolworth Building, New York City, until November 9, 1915, at 2:30 p.m., when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $1,875.00. The contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within 30 days after official notice of award of contract and in accordance with the terms of Specification No. 2225. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Training School for Boys, Yorktown Heights, N. Y., at the New York office of the Department of Architecture, Room 1224 Woolworth Building, and the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a check in the sum of $10.00, made payable to the State of New York, for each set of plans and specifications, which check will be returned when plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Dated, Albany, N. Y., October 5, 1915.

Bids received until Nov. 11, 1915.

Section G. Dorchester Tunnel

City of Boston, Mass.

Sealed bids for building Section G, Dorchester Tunnel, in Dorchester avenue, between West Fourth street and Old Colony avenue, South Boston, will be received by the undersigned until 12 o'clock noon of Thursday, November 11, 1915. The section is about 1,200 feet long. The structure will be mainly of reinforced concrete. The work includes a pump well with an emergency exit, a ventilating chamber with an emergency exit, an open incline for surface cars, a 6'-6" tidegate chamber on the B street outfall sewer, and sewer changes. Specifications and forms of contract can be obtained at 15 Beacon street, ninth floor. The right to reject any and all bids and to award the contract as is deemed to be for the best interest of the City of Boston is reserved.

By order of the BOSTON TRANSIT COMMISSION,
B. LEIGHTON BEAL, Secretary.

Bids received until Nov. 4, 1915.

Proposals for Repairs to Granby Street

OFFICE BOARD OF CONTROL,
Norfolk, Va., Oct. 22, 1915.

Sealed proposals will be received at this office until one o'clock P. M., Thursday, Nov. 4th, 1915, for reconstructing, repairing and repaving the wood block pavement on Granby Street, from Main Street to Queen Street, according to the terms and conditions of the existing contract between the United States Wood Preserving Company, of New York City, and the City of Norfolk, Va., dated Mar. 3, 1910. The pavement to be restored to a "thoroughly good and satisfactory condition"—without maintenance obligations.

Instructions to bidders, proposals and specifications for the work can be seen at the office of the City Engineer.

A certified check for $2000 00 will be required with each proposal.

The right to reject any or all bids is reserved.

BOARD OF CONTROL.
W. H. TAYLOR, JR., City Engineer.

Bids received until Nov. 15, 1915.

Notice to Hydraulic Dredge Contractors

New Madrid, Mo.

Sealed proposals will be received by the St. John Levee and Drainage District of Missouri until 2 o'clock P.M., November 15, 1915, at the office of the Secretary, in the South Room of the Hunter Bank Building, in New Madrid, Mo.

The work to begin at the east end of New Madrid, extend along the "front" and down stream to high ground; a total distance of about 8,700 ft.; and consists of either 300,000 cu.yds. special hydraulic fill levee; crown 10 ft., slopes 5 to 1 and 10 to 1; or 177,000 cu.yds. special levee combined with 76,500 cu.yds. standard team work levee.

Material for hydraulic fill levee to be obtained from Mississippi River bed or from the immediate bank, part from near each end of the work. Maximum distance to be pumped about 3,200 ft. The material for the team work will be obtained at the site.

The conditions on the ground must be examined to be understood. Plans and specifications can be examined in the office of the Secretary at New Madrid or at that of Miller Engineering Co., Little Rock, Ark.

Bids must be accompanied by a certified check in amount equal to 2% of the price bid. The successful bidder will be required to give satisfactory bond in an amount equal to 40% of the contract price.

Ninety days to begin work; then 12 months to finish.

The right to reject any or all bids is reserved.

W. S. EDWARDS, Secretary.

October 15, 1915.

Bids received until Nov. 3, 1915.

Sewer Extension

Atlantic Highlands, N. J., Oct. 19, 1915.

Bids will be received by the Mayor and Council of the Borough of Atlantic Highlands, N. J., until eight o'clock P.M. on November 3, 1915, for the construction of 2½ miles of 8" and 10" sewer pipe with necessary manholes, and concrete pit for sewer lift.

Plans and specifications may be obtained from W. T. Franklin, Borough Clerk, upon deposit of $10.00 as a guarantee for the safe return of same.

A certified check for the sum of $500.00 must accompany all bids, as a guarantee that the bidder will enter into contract and furnish proper bonds, should his bid be accepted. The Borough reserves the right to reject any or all bids.

(Signed) W. T. FRANKLIN, Borough Clerk.
H. O. TODD, Borough Engineer.

Bids received until Nov. 11, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock P. M. on Thursday, the 11th day of November, 1915, for the improvement of the highways in the following counties: Cayuga (approx. 8.00); Chautauqua (approx. 0.79); Genesee (approx. 0.40); Greene (two highways—3.98, 2.39); Jefferson (approx. 6.05); Montgomery (approx. 4.59); Oneida (two highways—4.69, 5.34); Schenectady (approx. 4.22).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the offices of the division engineers in whose divisions the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

I. J. MORRIS, Secretary. EDWIN DUFFEY, Commissioner.

Construction News

PRICE CHANGES AND THE BUSINESS OUTLOOK

Each week more is heard about the continued improvement in business, not only as applied to goods manufactured for export, but in nearly all lines for local consumption. The net earnings of the railroads show a decided increase over last year at this time, and business is so brisk that they are in no position at present to handle the freight which is piling up. One drawback seems to be the scarcity of transports at freight terminals, which ties up the unloading. According to railroad and shipping interests, deliveries scheduled to start Nov. 1 will be in excess of available cargo room on ships sailing from New York, and consequently railroad shipments will be diverted, to a certain extent, to Canadian ports, where shipping facilities to foreign ports are more easily obtained. A number of the railroads are placing large orders for new freight cars, among which are the New York Central, with an order for 9,000, and the Baltimore & Ohio for 1,000 hopper bottom cars, besides which figures have been asked by other roads for about 6,000 more. The railroads are also placing heavy orders for 1916 delivery of rails, among which are the Pennsylvania for 175,000 tons, the Boston & Maine, 25,000 tons, the Illinois Central, 65,000 tons and the Baltimore & Ohio for 62,500 tons. These orders give us an idea of the vast amount of rail business being handled; when it is understood that Russia alone has bought 350,000 tons and is in the market for more, it can be seen that business already placed in this line alone is around 1,000,000 tons.

The demand for pig iron and various lines of steel is the greatest since 1907, and is in excess of the producing capacity of the furnaces and mills. It is almost impossible to buy any pig iron, scrap, or ingot, for present delivery. Pig iron in the past three months has increased in price approximately 35%, and steel products outside of steel rails about 15%, and business in these lines is more than double that of a year ago. Pittsburgh is booming with this increased activity, the Westinghouse Electric Co. having bought 100 acres, to erect 500 model dwellings for employees at a cost of $1,500,000.

It is interesting to note that from 1900 to 1912, although the population of the United States has increased but a little over 25%, the national wealth has increased 112%, or $803 per person. Exports are reaching new marks each week, being estimated around $100,000,000 the third week in October against $73,700,000 the previous week. Contrast these figures with the weekly average for the past five years of $39,000,000, and some idea of the increase is gained. A large contract recently placed which is of interest is the order for 5,000,000 yd. of cloth, placed with the American Woolen Co., by the Russian Government, and is the greatest single order ever placed with one concern in this line.

Trade balances are piling up faster than ever before, the past four weeks the total being over $200,000,000. A year ago it was about $40,000,000. About 60 per cent. of these exports are for goods fully or partly finished, against a year ago when it was about 25 per cent. Municipal bond issues for September throughout the country, reached a total of over $21,000,000 against $8,712,000 for September a year ago. The increase for nine months of this year against last year is $38,395,668. Bond issues to be voted for the next six months if a good percentage pass, should increase considerably the over total for 1915 as there is a great deal of large work contemplated. Building permits for September from 163 cities furnish us with a contemplated outlay of $72,862,340 or $17,995,319 more than for the same month of last year.

The question of unskilled labor in construction work is very liable to become serious with the opening of work in 1916, as at the present time it is hard to get labor to leave the larger cities even for $2 a day of 8 hr. Emigration to this country has dropped to about ⅛ of what it was a year ago. For instance August, 1915, 21,940 emigrants landed here against 142,655 a year ago. Taking into consideration the great number of laborers returning to their own country, against those arriving and the expected additional construction contemplated for next year, it would seem that the unskilled labor problem is one of prime importance to the contractor.

Conservative banking interests are greatly worried over the present speculation in industrial stocks and consider it would be best for all concerned if the market were given a rest for a time.

The cement market is considerably firmer than it was a month ago with an additional rise in price of 10c. this week, this increase being due to the additional orders being placed and the shortage of labor as the steel interests are taking every available man. The local brick market is in better shape than it was a month ago, prices ranging from $6.75 to $7. Local business in all heavy construction lines seems to be better than before, this being caused by all contractors placing orders in an endeavor to finish as much work as possible before the winter sets in.

CEMENT, LIME AND BRICK

Brick—The brick market is firmer than it has been for some time at around $6.75 per thousand. This price is for Hudson and Raritan brick. Dealers do not expect a further increase in price at present. The reason for prices holding so firm is that the brick manufacturers have all cut down on the regular amount manufactured this year, expecting a continuation in the building slump and consequently are short of stock.

Portland Cement—Exceptional demand for this material has caused prices to increase. Labor scarcity has been a factor causing concern to manufacturers, and shipments are made with some difficulty. In the Eastern district the following quotations are current and show an advance of 10c. over last month:

New York	$1.22
Jersey City	1.16
Boston	1.37

The above prices are exclusive of package and for carload lots f.o.b. cars at places named. To contractors 45c. is added to the above figures, including charge for bags. To dealers 40c. is added to the above figures.

Lime—The market for unskilled labor is more acute at the present time than it has been all summer. This is on account of so many unskilled laborers going back to their own countries, and the regular amount of rush fall business which all contractors want to complete before cold weather sets in. The local employment agencies have a great many calls on hand all the time for laborers, $2 per day for an 8-hr. day, and find it practically impossible to fill them. The call for men in the building line is very slack, men applying for positions all the time, and practically no demand for same. Experienced machine shop men are at a premium, and are almost impossible to get. There is a great demand for machine shop men of all classes in England, advertisements appearing in the New York papers pretty regularly, offering very good inducements, but prices paid in this country are so high at present that, as far as we can understand, they are having very poor success in obtaining any men to fill the positions.

Crushed Stone—Business continues fairly good, and prices over last month have shown some advance. For immediate shipments on fair size contracts for 1½-in. crushed stone the price now ranges from 80 to 90c., and on ¾ in. 90c. to $1. Some dealers may experience difficulty in securing shipments due to the great demand for barges. In this connection it may also be said that prices may advance in accordance with the extra increase on barge charges. The demand for this material for highway improvement continues fair, and dealers appear to be well booked with orders. For extra large contracts, the foregoing prices may be shaded slightly.

Sand and Gravel—Local dealers say that business is better now than it has been for a number of years, although the amount of business being done has not affected prices over a month previous. Sand is quoted at 45c. per cu.yd., some dealers asking only 40c. on large orders. Gravel prices are as follows: Subway, 95c. per cu.yd., and paving 75c. per cu.yd.; 1½ in. gravel 80c. per cu.yd., and ¾ in. gravel at 85c. per cu.yd. These quotations are for full cargo lots of 500 cu.yd., delivered alongside of docks, New York.

IRON AND STEEL

Pig Iron—Not since 1907 has the buying of pig iron been so marked, and in comparison with the situation of a year ago the amount of business has practically doubled. Several times during the month, prices have jumped without occasioning any decrease in the demand, and at present makers are well able to maintain prices, and conditions are such that further increases are forecasted. The present demand is principally attributed to the war, although the domestic consumption is by no means light. At Cleveland during the last week the gathering of the steel representatives occasioned a great deal of interest, and the general discussions of those present gives reason to believe that the present state of the steel trade is almost without parallel. Although the buying in the Pittsburgh district is heavier than a month ago, the price remains the same, bessemer iron being quoted at $16.95 and basic at $15.95. These quotations include the usual freight charge from the valley to the Pittsburgh district. In the Cincinnati district, foundry irons have advanced a dollar per ton. The volume of business has been steady and heavy at this rate. The following quotations are effective:

Cincinnati Southern Foundry No. 2	$15.40 to $15.90
Cincinnati Northern Foundry No. 2	16.51 to 16.76
Cincinnati Northern Foundry No. 2	16.26 to 16.51

Chicago manufacturers are working under heavy pressure, and the volume of business is so great that the maximum of production is almost reached. Prices have been advanced, and are well maintained. The prices following are f.o.b. furnace, and for the switching charge the average is 50c. per ton. Northern Foundry No. 1 is now selling at $15.50 to $16.00; Northern Foundry No. 2 at $15.25 to $15.50. The Birmingham district prices have again advanced a dollar per ton, and shipments at this rate continue very heavy. For delivery f.o.b. furnaces, the price of Southern Foundry No. 2 is $13 to $13.50; No. 1 Southern Foundry sells at $13 to $14. In New York buyers have appeared in the market, and reports show that more deals have been closed than a month ago. In sympathy with the other districts, prices have shown an advance. Northern Foundry No. 2 plain is quoted at $15.75 to $16.25; No. 2X at $16.25 to $16.75. Southern iron is $17 to $17.25 for No. 1, and for No. 2, $16.75 to $17.

Steel Rails—Railroads are still entering the market and buying is even more free than a month ago. The most recent report states that the Pennsylvania R.R. Co. has entered an order of 175,000 tons of steel rails for its lines east and west of Pittsburgh. These rails are to cover the 1916 requirements of this system. Foreign governments are still sending in inquiries, and the mining and lumber interests are appearing in the market especially for orders of light rails. Quotations are without change, and for lots of 1000 tons or over, prices are as follows: Standard sections of bessemer, $28; open-

hearth, $30, both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40; in 60-ft. lengths, $38.40 per gross ton. Large lots, prices given in cents per lb., are as follows: Standard sections bessemer rails, 1.25c.; open-hearth, 1.34c. Light rails are quoted as follows: 25- to 45-lb. sections, 1.34c.; 16- to 20-lb., 1.39c.; 12- to 14-lb., 1.44c.; 8- to 10-lb., 1.49c. These are for carload or larger lots. An advance of 5c. per 100 lb. is charged for less than carload lots.

Track Supplies—Following the general advance of other steel materials, there has been an increase in the price of spikes, the present quotation being $1.70 per keg. The volume of business is heavier than a month ago, and inquiries on hand show considerable future business. The above quotation is for standard spikes, the smaller spikes selling at $1.80 per keg. Both quotations are f.o.b. Pittsburgh. Track bolts and square nuts are quoted at $2.10 to $2.25 in carload lots Pittsburgh. Standard section angle bars sell at $1.50 to $1.75, base, f.o.b. Pittsburgh. Track bolts at Chicago are selling at $2.10 to $2.25, and tie plates at $30 to $32 per ton.

Plates—Orders for this material have been more numerous and prices have stiffened and are well maintained. Shipbuilding companies are entering the market, and toward the latter half of the month have placed some very generous orders, and several contractors have ordered a fair quantity of plates for the construction of tanks. Although in some instances it is reported that prices have been shaded, the general quotation appears to be firm at $1.45 f.o.b. mills Pittsburgh. This price is equivalent to 1.639c. per lb. Chicago. The charge from stock in Chicago is 2c. per lb. In Philadelphia it is 1.609c., and in New York it is 1.619c., and from store 2.10 to 2.15c.

Structural Material—Building operations have shown an increased activity; especially in this noticeable in industrial circles. As a result, the demand for structural shapes is more apparent, and prices were not only stronger during the earlier part of the month but the latter half an increase of a dollar per ton was necessary. The placing of large orders for railroad cars and the call for special fabricated material from some of the railroads, created a more constant demand for certain structural shapes. The increase has been $2 per ton, and the base price at Pittsburgh is now $1.50 per 100 lb. This includes beams up to 15 in., channels 3 to 15 in. and angles 3 to 6 in.; T's 3 in. and over. Cutting to specified lengths is charged at the following rates: 2 to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft. In Philadelphia the base price is 1.659c. Small lots stock sell at least $1 to $2 per ton higher. In New York the base price is 1.619c. Small lots are quoted at a base price of 2.15c. from storehouse. In Chicago delivery from mill is 1.639c., and from stock 2c. The above quotations are per pound.

Pipe—Manufacturers are operating at a greater capacity than a month ago, and the demand has increased. It is rumored that the higher prices in steel products may tend to create a stronger market for this material and cause an increase in the price as well. On very desirable orders discounts on this material may be shaded, but the following for carload lots f.o.b. Pittsburgh hold fairly steady.

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	63½%
2½- to 6-in. steel, lap welded	78%	62½%
7- to 12-in. steel, lap welded	76%	58½%

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.43	4.19	5-in.	32.56	55.50
1-in.	3.57	6.20	6-in.	42.24	72.00
1¼-in.	4.83	8.39	7-in.	57.12	98.77
1½-in.	5.77	10.03	8-in.	60.00	$1.03
2-in.	7.77	12.55	9-in.	82.80	1.43
2½-in.	12.87	21.93	10-in.	98.99	1.70
3-in.	16.83	28.68	11-in.	$1.11	1.92
4-in.	23.98	40.87	12-in.	1.21	2.10

Sheets—Demands for black sheets have been more in evidence during the latter part of the month, and brought higher prices than during the early part. Compared with quotations of a month ago, the advance is 20c. per 100 lb. On galvanized the demand is moderate but fair and the price is lower. Quotations as given below are for large lots f.o.b. Pittsburgh and small lots from store New York:

	Cents per Pound — Large Lots Pittsburgh Black	Large Lots Pittsburgh Galv.	Warehouse Delivery New York Black	Warehouse Delivery New York Galv.
No. 10	1.75	2.50	2.25	.....
No. 12	1.75	2.60	2.30	3.65
No. 14	1.80	2.60	2.35	3.65
Nos. 18 and 20	1.90	2.85	2.55	3.90
Nos. 22 and 24	1.95	3.06	2.60	4.05
No. 26	2.00	3.20	2.65	4.20
No. 27	2.05	3.35	2.70	4.40
No. 28	2.10	3.50	2.75	4.50

Cast Iron Pipe—A keener interest is shown in the market, and more buyers are entering for spring shipments. Prices are firm as follows: In New York, on 6-in. Class B and heavier, $26 per ton tidewater is asked; and on Class A, $27; the latter price also applying to gas pipe. In Birmingham, oerations are on about the same scale as a month ago, and prices as follows, f.o.b. yards: 4-in., $22, 6-in. and upward, $20; on gas pipe $1 per ton is added. In Chicago contracts are more or less scarce, and the tonnages involved in most cases are small. Following are the quotations per net ton in this district: 4-in. pipe, $28; 6-in. and larger, $26; for Class A water pipe and gas pipe $1 extra is added. The advance in this market of $1 a ton has more or less held back some buying.

Steel Sheet Piling—The demand for this material is no greater than a month ago, and the price remains stationary at $1.55 base per 100 lb., f.o.b. Pittsburgh.

Old Material—Mills are only making purchases when offered very attractive prices, and in most cases are refusing a great deal of material that would not fully fit their requirements. A number of small lots are being purchased, but as yet there has been no decided slump in the market. Dealers in New York are furnishing the following quotations:

	Per Gross Ton
Heavy-melting steel scrap	$12.00 to $12.75
No. 1 railroad wrought	14.00 to 14.50
Stove plate	9.75 to 10.00
No. 1 machinery cast	12.75 to 13.00
Wrought turnings	7.50 to 7.75
Cast borings	7.50 to 7.75
Railroad malleable cast	10.00 to 10.50
No. 2 heavy cast	11.75 to 12.00

A similar condition practically holds true in Chicago, and consumers of materials are buying in moderation and in small quantities. The market, however, is rather strong, considering the general conditions. In this district, at the buyer's works, all freight transfer charges paid, quotations are as follows:

	Per Gross Ton
Heavy melting steel scrap	$11.75 to $12.00
Old steel rails rerolling	13.50 to 14.00
	Per Net Ton
No. 1 railroad wrought	$11.75 to $12.25
No. 2 railroad wrought	11.00 to 11.50
No. 1 cast scrap	10.50 to 11.00
Pipes and flues	8.50 to 9.00
Agricultural malleable	9.25 to 9.75
Railroad malleable	10.25 to 10.75
Cast borings	6.50 to 7.00

Chain—The market continues fair and steady, and the volume of business is about the same as a month ago. Prices remain steady and without change as follows per 100 lb. f.o.b. Pittsburgh.

⅜ in.	$7.50	½ and ⅝ in.	$3.00
¼ in.	4.95	⅝ and ¾ in.	2.90
⅝ in.	3.95	¾ and ⅞ in.	2.80
⅜ in.	3.40	⅞ and 1 in.	2.70
⅞ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
⅝-in. and larger	1.25	1.75

Wire Rope—Sales this month have been more numerous than the preceding month, and prices have shown a decided advance. On galvanized the discount is now 40 and 2½% off list. On bright it is 55 and 2½%. Special brand brights are selling at 50 and 2½% off list. Of these discounts the net price wire rope at the mills is as follows:

Diameter in Inches	Price per Foot — Cast Steel	Crucible Steel	Plow Steel
2½	$0.77	$0.92	$1.10
2¼	0.63	0.75	0.88
2	0.51	0.59	0.70
1¾	0.40	0.48	0.57
1½	0.29	0.35	0.41
1¼	0.20	0.25	0.29
1	0.14	0.16	0.19
¾	0.08	0.09	0.11
⅝	0.07	0.07	0.08

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.; Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 73.9.

Merchant Steel—More interest has been taken in the market for merchant shapes, and transactions during the month have been more numerous and the volume of business more steady. In most instances prices have advanced a dollar per ton. The quotations as given below are the general base prices for small lots in jobber's store:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	2.05
1½ to 4 in. x ⅜ to 1 in.	2.05
1½ to 4 in. x ¼ to ⅛ in.	2.25
Norway bars	3.95
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	2.05
1 to 6 in. x ⅜ to 1 in.	2.05
1 to 6 in. x ¼ and ⅛	2.10
Rods—⅝ and ½ in.	2.15
Bands—1½ to 6x⅛ in. to No. 8	2.35
Beams and channels—2 to 15 in.	2.10

Angles:

3 in. x ¼ in. and larger	2.10
3 in. x ⅜ in. and ⅛ in.	2.55
1½ to 2¾ in. x ⅜ in. and thicker	2.30
1½ to 2½ in. x ⅛ in.	2.20
1 to 1¼ in. x ⅛ in.	2.30
1 to 1¼ in. x ⅛ in.	2.35

Tees:

1½ to 2½x¼ in.	2.25
1½ to 2½x⅛ in.	2.35
3 in. and larger	2.15

Triangle Mesh—The demand continues very good and following the other metal products, increase in this material has resulted. The general revision of price makes the following quotations:

PRICE PER 100 SQ.FT. FOR FOUR-IN. MESH

Style No.	Cross-Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.10	$1.20	$1.31	$1.42
5	0.077	.87	.95	1.04	1.12
6	0.058	.69	.76	.82	.89
†7	0.041	.54	.59	.64	.69
†23	0.170	1.84	2.02	2.20	2.38
24	0.142	1.58	1.74	1.89	2.05
25	0.124	1.40	1.54	1.68	1.82
†26	0.110	1.28	1.40	1.53	1.65
†27	0.085	1.05	1.15	1.25	1.35
28	0.066	.87	.95	1.04	1.12
29	0.049	.71	.78	.85	.92
31	0.261	2.70	2.97	3.23	3.50
32	0.225	2.35	2.58	2.81	3.04
33	0.196	2.09	2.30	2.50	2.71
34	0.140	1.61	1.76	1.92	2.08
35	0.109	1.28	1.40	1.53	1.65
36	0.075	.94	1.04	1.13	1.22
38	0.380	3.85	4.23	4.61	4.98
†39	0.325	3.32	3.64	3.97	4.29
40	0.283	2.91	3.19	3.48	3.76
41	0.208	2.22	2.44	2.65	2.87
42	0.151	1.68	1.85	2.01	2.18
43	0.101	1.20	1.32	1.43	1.55

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—The mills are receiving more orders than they can take care of, business being even more brisk than it was a month ago. Delivery on orders has been extended to four and five months, and the mills do not appear anxious for any further business for months to come. Prices have advanced 10c. with a further increase expected in a short time. New prices effective October 26 are as follows:

	Cents per Pound—Mill Shipment Pittsburgh	F.o.b. Warehouse Pittsburgh	Delivered From Warehouse New York
¾ in. base	$1.50	$2.15	$2.15

Full bar card extras.

Expanded Metal Lath—Business is very good with the dealers in this line, and they find it very hard to fill orders on account of the scarcity of material from the mills. This is caused by their being able to sell their entire output to foreign countries if they wished, instead of which they are doing their best to take care of the market in the United States, although they claim that they can get from 25 to 33 per cent. more by exporting it. Prices have advanced since last month, and dealers expect another advance within a few weeks. Prices for painted are as follows, effective Oct. 27.

Gage	Weight	Carload	1,000 to 5,000	Under 1,000
27	233	$11.44	$12.52	$13.52
26	250	12.47	13.55	14.55
25	300	13.57	14.66	15.66
24	340	14.64	15.75	16.75
22	450	17.54	18.75	19.75

For galvanized cut in sheets, add 6c.

METALS

Copper—During the early part of the month there was some activity in the market, and the price of electrolytic rose to 18¼c. per lb., while Lake remained unchanged at 18c. These prices both held very steady, and although the market was not exceptionally strong at these figures, yet business was considered fair. During the last week of the month there was a lull, and prices of both electrolytic and Lake stood at an even level of 18c. At this quotation, the market showed indications of weakness, and buying for both export and domestic use was very light. Manufacturers of war supplies tend to hold the market strong at this writing, the present quotations having advanced to 18⅛c. for electrolytic and 18¼c. for lake.

Tin—Tin opened the beginning of the month with a firm market at 33c. per lb., but at this figure very little interest was shown. Toward the end of the month, a great deal more business appeared, and the activity in the tin market caused an advance of 3c. per lb. It is believed that a great deal of the buying was done on a speculative basis. As we go to press, the quotation remains at 36c. and the market continues brisk and strong.

Lead—Following the advance of tin last week lead was raised to 4.9c. per lb., and buying by both foreign and domestic consumers was very heavy. Trade conditions at this time are exceptionally good, but some dealers are willing to shade this quotation slightly. In comparison with the first three weeks of the month the price remained stationary at 4.5c., but buying was not considered by any means good. However, this price remained firm, although the inactivity was marked.

Spelter—Following the marked activity in the tin and lead market, spelter sales became more numerous and the market stiffened considerably. Domestic consumption is good, although the foreign demand is more or less irregular. The preesent quotation of 14c. is firmly held, and dealers are of the opinion that it will continue at this figure for sometime.

Old Metals—Prices went up and down during the month. Buyers only at instances showed some interest in the market. The following quotations, however, are well maintained, and are for dealers' prices paid in New York:

	Cents per Pound
Copper, heavy cut and crucible	15.00
Copper, heavy and wire	14.75
Copper, light and bottoms	13.00
Brass, heavy	10.00
Brass, light	8.25
Heavy machine composition	12.00
No. 1 yellow rod brass turnings	10.75
No. 1 red brass or composition turnings	10.50
Lead, heavy	3.75
Lead, tea	3.50
Zinc scrap	8.00

MISCELLANEOUS

Asphaltum—Manufacturers are very busy in this line, on account of contractors trying to get all their work done before cold weather sets in, which means that they are ordering enough material to last them for the balance of the season. The price has advanced to $15 a net ton in wooden packages, caused by the difficulty in getting tank steamers to bring Mexican petroleum to this country, and the increased freight rate that they are charging.

Explosives—Prices on caps, explosives, dynamite, etc., can only be obtained from the nearest factory, on account of prices varying so much in the different zones.

Railway Ties—There is very little business at present, conditions not having changed at all since last month. The railroads are commencing to use up their present stock of ties, and a few requests are commencing to come in for prices on deliveries in 1916. The dealers are not particularly discouraged, as they all have reason to know that their line of business is one of the last to be benefited by better conditions, and are confident that it is only a question of time when they will again be very busy. Freight rates are about the same as they have been, and prices are as follows: First class standard ties, 7x9 in. by 8 ft. 6 in., 73c.; 6x8 in. by 8 ft. at 61c. These prices are f.o.b. New York.

Blue Stone—There is the regular Fall picking up in business in this line, so that the contractors can finish all the work possible before the winter sets in, which is keeping them fairly busy at present, and they all seem to be very optimistic about the future. There seems to be very little large work going on, most of the contracts let being very small, but all dealers are planning for a large business next year when they expect a great many of the large contracts to materialize. Prices are as follows: Bronx flagging 17c. per sq.ft.; Manhattan 18c. per sq.ft.; curbing 5x16 in., 40c. per lin.ft.; 5x20 in. 45c. per lin.ft.; sewer bottoms, 5x5 ft. by 3 in. 25c. per sq.ft.; Belgiam bridging 5x24 in., 65c. per lin.ft.

Glass—The following prices are for window, plate and skylight glass. Plate glass 90%, 40%, 10% off of current list. Window glass single strength 1-3 brackets inclusive B quality, 90% and 30% off; A quality 90 and 20% off. Above the third bracket B quality 90 and 10% off; A quality 90% off. Double strength glass all brackets B quality, 90 and 20% off; A quality, 90 and 10% off. In single strength or double strength AA quality, special prices prevail. On skylight glass ¼ in. wire, rough or ribbed, 14c. per sq.ft. Boxing on above, extra for out of town shipment.

Clay Drain Tile—The local dealers in this line are all of the opinion that business is very good and expected to continue so until cold weather sets in. Prices are as follows:

PER 1,000 SQ.FT.

2 in.	3 in.	4 in.	5 in.	6 in.	8 in.
$17.50	$22.50	$32.50	$47.50	$57.50	$97.50

These prices are in carload lots, f.o.b. New York.

Flue Lining—While business might only be considered fair, prices are well maintained, the present discount being 83% off list. At this rate prices are as follows:

FLUE LINING—PRICE PER FOOT

Size in In.	Weight in Lb.	Price per Ft.	Size in In.	Weight in Lb.	Price per Ft.
4½x 8½	14	$0.06	8½x13	28	$0.114
4½x13	20	0.076	8½x18	45	0.153
4½x18	40	0.17	13x13	38	0.144
7 x 7	15	0.068	13x18	57	0.204
8½x 8½	18	0.076	18x18	75	0.34

Sewer Pipe—Dealers report conditions as very favorable considering the period for the year. They are able to maintain the same prices as a month ago, and the outlook for business appears very encouraging. Discounts are firmly held as follows: On 3 to 24 in., 82% off list is quoted; 27 to 30 in., 72%; 30 to 36 in. At this rate prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Connecticut—New York, New Haven & Hartford Railroad plans to double track its Northampton division to complete a stretch of double tracks between New Haven and Westfield. Elmer Gagel, New Haven, Ch. Engr.

New York—International Railway Co., Buffalo, will soon start work on new line on Eleventh St. to College Ave., Niagara Falls. J. C. Sheldon, Buffalo, Pur. Agt. Noted Oct. 22.

Pennsylvania—Baltimore & Ohio Railroad Co. will rebuild its tracks in Johnstown. F. L. Stuart, Baltimore, Ch. Engr.

Delaware—Wilmington & Philadelphia Traction Co., Wilmington, acquired control of Wilmington, New Castle and Delaware City Railway and plans to improve same. T. W. Wilson, Wilmington, Gen. Mgr.

Maryland—L. F. Johnson, Baltimore, interested in electric railway to be built from Hancock, Md., south to Berkley Springs, W. Va., about ten miles.

Maryland—Western Maryland Railway making surveys from point on Baltimore and Ohio Railroad Co. near Hutchinson, W. Va., west to Wyatt, about eight miles, to build line to develop coal fields. H. R. Pratt, Baltimore, Ch. Engr.

North Carolina—Bonds for $50,000 voted to aid proposed line from Topton, N. C., north via Robbinsville and along Cheoah River, about 43 miles. E. Philbrick, Andrews, Ch. Engr. Noted Sept. 23.

Florida—Jacksonville Traction Co., will soon start work on construction of double track through Springfield Park from Pearl to Hogan St., Jacksonville. Hardy Groom, Jacksonville, Local Mgr. and Pur. Agt.

Alabama—Alabama Power Co. received 39-year franchise from City Council to extend line from Sixth and Lapsley St. to Anniston Country Club, Anniston. A. L. Kenyon, Anniston, Mgr. Noted July 29.

Alabama—Montgomery Light and Traction Co. applied to City Council for franchise to extend its line in Montgomery from Day St. terminus west to city limits.

Kentucky—Cumberland Traction Co. has increased its capitol stock from $50,000 to $250,000 and plans to build a railway between Edmonton and Elizabethtown. L. J. Metcalfe, Elizabethtown, Pres.

Kentucky—Louisville, Henderson & St. Louis Railway plans to issue $5,000,000 bonds. Part of proceeds will be used for improvements. F. D. Ferry, Louisville, Pur. Agt.

Kentucky—Southern Railroad will build line through coal and timber districts in Bluefield, W. Va., along border of Kentucky and Virginia, about 65 miles. C. R. Craig, Pur. Agt., Washington, D. C.

Ohio—A company has been formed by N. J. McGuire, R. Faulkner and K. C. Wilson, Indianapolis, Ind., to build traction line between Chillicothe and Hillsboro to be operated by gasoline electric power.

Ohio—Cincinnati, Hamilton & Dayton Railway will double track line from South Dayton to Miamisburg, seven miles. E. H. Bankack, Baltimore, Md., Pur. Agt. Estimated cost, $175,000.

Indiana—Evansville, Chrisney & Eastern Railway plans to build a line from Boonville to Chrisney, about 13 miles, and from Boonville to Lynnville, about 11 miles. J. P. Chrisney, Pres.

Indiana—Ft. Wayne, Decatur & Southern Railroad, recently incorporated, plans to build a line from Decatur to Berne, about 12 miles. Noted Aug. 26. M. Gerke, interested.

Michigan—Surveys being made for electric railway from Muskegon to St. Johns, Mich., about 110 miles.

Illinois—J. E. Melick, 333 South Douglas Ave., Springfield, and associates completed survey for railway between Pearl and Kampsville, 11 miles. Noted Oct. 22.

Iowa—Inter-Urban Railway of Des Moines plans to build an extension of its line from Colfax to Newton, via Metz, about 12 miles. F. M. Harris, Des Moines, Pur. Agt.

Iowa—Muscatine & Iowa City Railway Co. leased lines of Muscatine & Western Railroad Co. and will electrify same between Muscatine and Iowa City. C. D. Van Hecke, Gen. Mgr.

Missouri—Citizens of St. Charles contemplate electric railway. Estimated cost, $50,000.

Arkansas—Press reports state that Iron Mountain Railroad will build branch line from Buffalo to Rush, Ark. W. L. Cole, Keswick, Calif., Gen. Mgr.

Texas—Vernon L. Sullivan, Ft. Stockton, interested in construction of railway from Garvin, Tex., or some point on Kansas City, Mexico & Orient, northwest to connect with Texas & Pacific at Pecos or Barstow, about 80 miles.

Texas—Franchise granted to Dallas Southwestern Traction Co. and Dallas Northwestern Traction Co. for line from Dallas southwest via Cleburne and Glen Rose to Stephenville about 80 miles, and from Dallas to Denton, about 30 miles. E. P. Turner, Gaston Bldg., Dallas, Pres. Noted Oct. 21.

Texas—Gulf, Texas & Western Railway contemplates extending its line from Jacksboro to Ft. Worth, about 35 miles. Benjamin B. Cain, Dallas, Vice-Pres. and Gen. Mgr.

Texas—Charles E. Schaff, receiver of Missouri, Kansas & Texas Railway Co., applied to Federal Court for permission to purchase 15,000 tons of 85 lb. steel rails for relaying 115 miles of track of system in Texas. W. E. Williams, Parsons, Kan., Gen. Mgr.

Oklahoma—Choctaw Railway and Lighting Co. plans extension of line from Hartshorn to Gowen and Wilburton. L. E. Fisher, St. Louis, Mo., Vice-Pres. and Gen. Mgr.

Idaho—G. A. Branson will build two mile spur from Chicago, Milwaukee & Puget Sound Railroad Co. near Santa, to St. Maries Lumber Co.

Washington—Lewistown & Clarkston Transit Co. has applied to Board of County Commissioners of Asotin County for franchise to extend line in Clarkston.

Oregon—Oregon Electric Railway Co. will build spur track to warehouse of Allen & Lewis Co., Eugene, Ore. W. D. Scott, Portland, Gen. Mgr.

Oregon—Pacific Power and Light Co. applied to City Council for 30-year franchise to extend line on Franklin Ave., Astoria. James E. Davidson, Portland, Gen. Mgr.

Quebec—Surveys being made for branch line of Quebec and Lake St. John Railway from Lorettville to Stoneham, about 9½ miles.

Ontario—Canadian Pacific Railway Co. plans industrial spur for Graves, Bigwood, Co., Sudbury, about 52.6 miles. J. M. R. Fairbairn, Montreal, Asst. Ch. Engr.

Saskatchewan—Grand Trunk Pacific Railway Co., has been authorized by Railway Commissioners to build line to Board of Grain Commissioners' elevator, Moose Jaw. H. A. Woods, Winnipeg, Man., Asst. Ch. Engr.

Bids In and Contracts Awarded

North Carolina—Contract awarded by Piedmont and Northern Railway Co. to CHARLOTTE CONSTRUCTION Co., for branch line from Belmont Junction to Belmont, about four miles. Noted Oct. 21.

Texas—Midland & Northwestern Railway awarded contract to J. A. HUNTER, Strawn, Tex., for grading from Midland, Tex., through Andrews County to Seminole, Gaines County, 65 miles. G. W. Thaxter, Ch. Engr., T. J. O'Donnell, Midland, Tex., Pres.

California—Spanish Peak Lumber Co., Quincy, awarded contract to UNITED STATES STEEL PRODUCTS Co., at $35,536, for tramway from Spanish Ranch to Gray's Flat, about 6 miles.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Pittsfield—Pittsfield Coal Gas Co. plans to extend its mains about 13 miles. Estimated cost, $41,000.

Conn., Manchester—Cheney Bros. plan power plant on south side of Hartford Rd.

N. Y., Batavia—Plans being considered for improving electric-light plant. Estimated cost, $22,737.

Penn., Ridgway—Plans being considered by Ridgway Electric Light Co. to issue $15,000 capital stock to extend and improve its plant.

Md., Easton—Newton Electric Co. plans electric transmission system from Easton to Oxford, about 15 miles.

Va., Atkins—Plans being considered by D. P. Musser for electric-light plant.

N. C., Salisbury—Plans being considered by Southern Power Co., Charlotte, for enlarging and improving its plant.

N. C., Wilmington—Tidewater Power Co. plans an expenditure of from $50,000 to $60,000 to extend gas service from Wilmington to Wrightsville Beach and seven other towns, also to build several stations.

Ga., Graymont—City retained W. Hopson Goodloe, Macon, Ga., to prepare plans and supervise construction of electric-light plant to be built by Graymont and Summit. Estimated cost, $10,000. Noted Oct. 7.

Ala., Bessemer—Plant of Bessemer Gas Co. purchased by Birmingham Railway, Light and Power Co., who plan to improve and extend same.

Miss., Utica—Plans being prepared by X. A. Kramer, Magnolia, for electric-light plant.

Tenn., Mason—According to press reports a company is being organized to construct an electric-light plant.

Ky., Louisville—Lyndon Country Club is back of a movement to construct an electric-light plant in Louisville.

Ky., Whitesburg—Wiley W. Gibson & Son, Mater, contemplates electric-light plant.

Ohio, Lima—An expenditure of $23,000 planned by Cincinnati, Hamilton & Dayton Railroad for new power plant.

Ind., Oldenburg—Bids being received for a power house at convent of Sisters of St. Francis, Oldenburg. Estimated cost, $20,000. J. J. Reuckert, 8 Allen Bldg., Cincinnati, Ohio, Arch.

Ill., Chicago—U. S. Ball Bearing Co., 2147 North Kolmar Ave., will build a one-story brick power house. Estimated cost, $15,000.

Ill., Galesburg—See item under "Water Works."

Minn., Raymond—(Official)—City will construct light and power station under supervision of Minnesota Valley Power Co. Estimated cost, $5,000. Noted Oct. 21.

Kan., Oakley—Bids will be received until 7.30 a.m., Nov. 23, by J. A. Switzer, City Clk., for constructing a power plant. G. P. Taylor, Stockton, Engr.

S. D., Ashton—F. W. Boyle, Garden City, interested in Spink County Power Co., recently organized, to furnish light and power to Ashton and other towns.

Mo., Bevier—Bonds for $12,000 voted for purchase of electric-light plant. Noted Oct. 14.

Mo., Maplewood—Western Light and Power Co. granted franchise by City Council to operate electric-light plant.

Mo., Springfield—Election will be held to vote on bonds for electric-light plant.

Ark., Mountain Home—L. J. Goodrich and D. Undergill, Mountain Home, and H. M. Tatum, Sparkman, granted franchise for electric-light plant.

Tex., Austin—Plans prepared for concrete and brick power house for Austin St. Railway Co. Estimated cost, $5,000.

Tex., Beeville—Preliminary plans being prepared by Bartlett & Raney, Consult. Engr., San Antonio, for electric-light plant.

Tex., Sherman—Election will be held to vote on $150,000 bonds for electric-light plant, water system and street improvements.

Idaho, Rockland—G. B. Hodgin and Marsh & Stite have applied to State Public Utilities Commission for permit to construct electric-light system.

Wash., Ellensburg—City Council plans an expenditure of $60,000 for improving municipal power plant.

Calif., Colton—Edison Electric Co. will build an addition to its transformer station.

Bids In and Contracts Awarded

Penn., Manayunk—ELMER L. CUTHBERTSON awarded contract for one-story, 70x98-ft. boiler house for Ripka Mills Co.

Ga., Toccoa—Contracts for electric-light plant awarded to J. G. PHILLIPS, at $9,565, for dam, power house and flue lines and to WALKER ELECTRIC AND PLUMBING CO., at $15,185, for transmission lines and substations. Noted Oct. 7.

La., Lake Charles—Contract for gas plant and distributing system awarded to AMERICAN GAS CONSTRUCTION CO., Chicago, Ill. Estimated cost, $100,000. Noted Oct. 21.

Kan., Attica—(Official)—Contract for improving electric-light plant awarded to BICKEL CO., Kansas City, Mo. Noted Sept. 23 and Oct. 21.

Kan., Atwood—Contract for municipal electric-light plant awarded to F. D. MARTIN CONSTRUCTION CO., 407 Rialto Bldg., Kansas City, Mo., at $11,727. Noted Sept. 30.

BRIDGES

Proposed Work

R. I., Woonsocket—(Official)—Bids will be received by Board of Alderman, Alderman's Chambers, City Hall, until 8:15 p.m., Nov. 23, for building three reinforced-concrete bridges. Noted Oct. 28.

N. Y., Oswego—Bids will soon be received for bridge over Oswego River at Minetto. State has appropriated $50,000 toward cost.

N. J., Plainfield—An expenditure of $9,500 planned for constructing a number of bridges.

Penn., Wilkes-Barre—Bids will be received by Fred H. Gates, City Clk., until noon, Nov. 5, for reinforced-concrete bridge over Solomon's Creek on Barney St.

W. Va., Welch—Proposition submitted to Town Council by Norfolk & Western Railway for bridge across Elkhorn River. J. E. Crawford, Roanoke, Va., Ch. Engr.

Fla., Merritt—City contemplates bond issue for bridge from Cocoa to Merritt.

Ala., Mobile—See item under "Streets and Roads."

Miss., Meridian—Bids will be received by J. O. Wise, Secy. of Good Rds. Comn., until 11 a.m., Nov. 9, for reinforced-concrete bridge.

Tenn., Crossville—Commissioners of Cumberland County will construct reinforced-concrete bridge at Sutton Ford.

Tenn., Nashville—Nashville, Chattanooga & St. Louis Railway and Nashville Railway and Light Co. plan to build viaduct over tracks of Nashville, Chattanooga and St. Louis Railway at Cedar St. Estimated cost, $48,000.

Ohio, Lowellville—Bids will be received until noon, Nov. 15, for purchase of $5,000 bonds for bridge over Mahoning River.

Ohio, Upper Sandusky—(Official)—Bids will be received by Jay Marguerat, County Audr., until noon, Nov. 12, for superstructure of bridge over Sandusky River, Tymochtee Township. Noted Oct. 21.

Ill., Taylorville—(Official)—Bids will be received by C. A. Penington, County Supt., until 10 a.m., Nov. 8, for steel bridge in Bear Creek Township, Christian County.

Wis., Omro—Report submitted by Engineers of State Highway Commission estimating cost of bridge over Fox River at $30,000.

Kan., Salina—(Official)—Bids will be received until noon, Nov. 11, by R. C. Anderson, County Clk., for bridges over Smoky River. Noted Oct. 21.

Kan., Topeka—Commissioners of Shawnee County contemplate an expenditure of $30,000 for new bridges.

Kan., Wathena—City will build concrete arch bridge estimated to cost $6,500.

Neb., Lincoln—Bridge will be constructed at Parshall crossing about five miles south of Butte by Commissioners of Boyd and Holt Counties. Estimated cost, $25,000.

S. D., Yankton—Election will be held Nov. 9 to vote on $300,000 bonds for bridge across Missouri River at Yankton. Noted Oct. 21.

Mo., Lexington—See item under "Streets and Roads."

Tex., Austin—See item under "Streets and Roads."

Tex., Ft. Worth—Plans approved for reinforced-concrete bridge over Deer Creek. Bids will soon be received for same.

Tex., Graham—See item under "Streets and Roads."

Tex., Marshall—Election will soon be held to vote on $50,000 bonds for viaduct over tracks of Texas and Pacific Railway. T. E. Hilliard, City Engr.

Okla., Talihini—See item under "Streets and Roads."

Okla., Vinita—Election will be held Nov. 16 to vote on $50,000 bonds for 17 bridges.

Idaho, Parma—Bids will be received by County Commissioners, Caldwell, until Nov. 22, for steel bridge over Boise River at Parma. Estimated cost, $17,000. Inland Engineering Co., Caldwell, Engr. Noted Oct. 7.

Wash., Metaline Falls—Plans being considered by County Commissioners for steel bridge over Pend O'Reille River between Metaline Falls and Metaline. Estimated cost, $10,000.

Wash., Seattle—Northern Pacific Railroad Co. plans to start work soon on pile trestle connecting present right-of-way with Plummer St. grade. Estimated cost, $25,000.

Ore., Salem—Plans being considered by County Court for steel bridge. Estimated cost, $90,000.

Calif., Bakersfield—Bids will be received by H. A. Jastro, Chn., Bd. of County Supervs., until Nov. 8, for bridges and culverts on Division 10, Section 7, Bakersfield-Mojave Rd.

Calif., Pomona—See item under "Streets and Roads."

Calif., Riverside—Plans being prepared by C. B. Wright, Engr., Rialto, for reinforced-concrete bridge on Fairmont Blvd. for Crescent City Railway Co. Estimated cost, $10,000.

Calif., Sacramento—Plans accepted by City Commission for bridge over Arcade Creek in De Paso Park.

Bids In and Contracts Awarded

Mass., Boston—All bids received Oct. 19 for pile bridge and approaches in Edgartown and Oak Bluffs rejected.

Conn., New Hartford—SPAULDING CO., Suffield, at $8,000, awarded contract for superstructure of bridge at Satan's Kingdom. Noted Oct. 21.

Penn., Sharon—Contract for bridge across Shenango River at State St. awarded to CANTON BRIDGE CO., Canton, Ohio, at about $49,990. Noted Sept. 23.

S. C., Greenville—Contract for bridge across Saluda River on double track between Greenville and Central for Southern Railway awarded to BAILEY CONSTRUCTION CO., Chattanooga, Tenn. Noted Sept. 30.

Fla., Monroe—Contract for bridge across St. Johns River at Monroe awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., for steel work, and to BEASLEY CONTRACTING CO., Savannah, Ga., for approaches and foundations. Atlantic Engineering Co., Savannah, Ga., Engr. Noted Oct. 14.

Ky., Covington—Bids were received Oct. 28 for bridge piers for bridge to carry duplicate supply main of Licking River at a point approximately 150 ft. south of Louisville and Nashville Railway bridge as follows: C. E. Harris, Covington, Bates & Rogers Construction Co., Chicago, Ill. and D. P. Foley, Cincinnati, Ohio. Noted Oct. 21.

Ohio, Columbus—(Official)—Contract for substructure of Brown Bridge awarded to WILLIAM F. SCHWARTZ, 2634 West Broad St., Columbus, at $4,336.

Ohio, Columbus—(Official)—Contract for constructing approaches to Chenoweth Mill Bridge awarded to PURDUM & SCHWARTZ, 2634 West Broad St., Columbus, at $5,323. Noted Oct. 7.

Ind., Anderson—(Official)—Contract for two additional steel spans for bridge across White River on North Main St. awarded to ELKHART BRIDGE AND IRON CO., Elkhart. Estimated cost, $9,000. Noted Sept. 23 and Oct. 21.

Ind., Indianapolis—DUNN-McCARTHY CONSTRUCTION CO., Chicago, Ill., at $146,378, awarded contract for bridge over Fall Creek at Meridian St.

Mich., Detroit—Contract for temporary Belle Isle Bridge awarded to GEORGE R. COOK, Detroit, at $92,225. Noted Aug. 19 and Sept. 16.

Mich., Spring Lake—Contract for reinforced-concrete bridge over Petty's Bayou in Spring Lake Township awarded to C. M. BLAKESLEE.

Iowa, Humboldt—Contracts for bridge work awarded to HUMBOLDT CEMENT PRODUCTS MFG. CO., Humboldt, for group A, C, D and E, and to KOSS CONSTRUCTION CO., Des Moines, for group B. Estimated cost, $33,000.

Kan., Beloit—County Commissioners rejected all bids for N. H. White bridge across Labon Creek. T. H. McCall, County Clk.

Kan., Concordia—(Official)—Contract for 11 reinforced-concrete bridges awarded to JAMES BOHAMON, Glasco, at $8,899. Noted Oct. 14.

Kan., Mankato—(Official)—Contract awarded to WESTERN BRIDGE CO., Harrisonville, Mo., at $4,549, for steel truss bridge with 80-ft. span and 16-ft. roadway. Noted Oct. 21.

Nebr., Lincoln—(Official)—Contract for bridge over Oak Creek Channel awarded to LINCOLN CONSTRUCTION CO., Lincoln, at $12,850. A. H. Edgrem, Engr. Noted Oct. 14.

Mont., Sheridan—Contract for steel bridge over Tongue River north of Sheridan awarded to SECURITY BRIDGE CO., Billings.

Mo., Independence—Contract for steel bridge in Section 19 awarded to FOX-REDPATH CONSTRUCTION CO., 922 New York Life Bldg., Kansas City, Mo., at $4,219.

Ark., Little Rock—Contract for reinforced-concrete viaduct over tracks of Chicago, Rock Island & Pacific Railway at Second St. awarded to FOX CONSTRUCTION CO., Little Rock. Estimated cost, $35,000. H. R. Shields, Div. Engr.

Tex., Floresville—Contract for bridge across Calaveras Creek on San Antonio-Floresville Rd. awarded to ALAMO CONSTRUCTION CO., San Antonio. Estimated cost, $10,000.

N. M., Roswell—Contract for bridge over the Rio Feliz near Hagerman awarded to MIDLAND BRIDGE CO., Kansas City, Mo., at $11,000. Noted Oct. 7.

Idaho, Boise—Contract for bridge work on state highway through Cassia County awarded to CHARLES MULL, Twin Falls, at $15,300.

Wash., Aberdeen—All bids received for West Toll Bridge over Chehalis River rejected. Noted Aug. 26 and Sept. 23.

Wash., Spokane—BEERS BUILDING CO., Smith Bldg., Seattle, at $18,888 and $15,555, awarded contract for steel bridge over Middle Channel at Howard St. and approach to south end of Monroe St. bridge.

Ore., Portland—Contract for viaduct near Bertha Station awarded to HEINEKE BROS., at $7,611.

Calif., Bakersfield—Contract for bridges on McKittrick Rd. awarded by Board of Supervisors of Kern County to M. T. KEAN, at $12,350.

Calif., Madera—(Official)—Contract for bridge across Fresno River awarded to MANNING BROS., Fresno, at $9,470. Noted Oct. 7. W. C. Utter, City Clk.

WATER WORKS

Proposed Work

Mass., Fall River—(Official)—Special Commission on Watuppa Ponds and Quequechan River water supply recommend improvement of Watuppa Ponds and Quequechan River. Action will probably not be taken till spring. Fay, Spofford & Thorndike, 308 Boylston St., Boston, Engr. Noted Oct. 21.

N. Y., Batavia—Chester & Fleming, Engr., Pittsburgh, Penn., estimates cost of pumping station and filtration plant at $135,000.

N. Y., Hudson Falls—Citizens voted against issuing bonds for $270,000 for water system. Noted Sept. 2.

N. Y., Minoa—City contemplates issuing $28,000 bonds for water system.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by William Williams, Comr. of Water Supply, Gas and Electricity, Room 2351, Municipal Bldg., New York, N. Y. (Borough of Manhattan), until 2 p.m., Nov. 12, for furnishing, delivering, unloading, stacking and storing cast-iron pipe.

N. J., Jersey City—(Official)—Bids will be received until 2 p.m., Dec. 2, by City Commissioners for laying about 11 miles of 72-in. steel pipe from Brooksdale to Jersey City and laying twin pipe line under Passaic and Hoboken Rivers. Noted Sept. 30.

N. J., New Brunswick—City contemplates new dam about 200 ft. above present one. Estimated cost, $20,000.

N. J., Vetnor City—(Official)—Bids will be received until 8 p.m., Nov. 22, by Common Council for mechanical equipment for artesian water works. E. Steelman Royal, City Clk. (See adv.)

Penn., Dalmatia—(Official)—Dalmatia Water Co. has had plans approved by State Department of Health for water system.

Penn., Halifax—(Official)—State Department of Health issued permits to Halifax Water Co. for repairs and extensions to spring collecting system.

Penn., Hanover—(Official)—Hanover & McSherrystown Water Co. has plans for additions to reservoir.

Penn., Juniata—State Department of Health approved plans for intake dam for municipality.

Penn., Kittanning—Borough of Kittanning petitioned Public Service Commission for permit to build water system.

Penn., Royersford—(Official)—Home Water Co. has had plans approved by State Department of Health for filtration plant, pumping station and force main.

Del., Wilmington—Water Board petitioned Council for appropriation of $35,000 for extension of underground work.

Va., Norfolk—Contract will soon be awarded for repairs or restoration of three earth dams including protective measures and substitution of concrete spillways for present ones of wood. Estimated cost, $56,000. W. H. Taylor, Jr., City Engr. Noted Oct. 14.

Va., Waverly—(Official)—Citizens defeated $55,000 bonds, part of proceeds of which was to be used for water system. Noted Oct. 28.

W. Va., Clarksburg—(Official)—Bids will be received until noon, Nov. 26, by Water Works and Sewerage Board for installing two gas engines and two pumps at the pumping station. Noted Sept. 23. (See adv.)

Fla., St. Augustine—Plans will be prepared by C. E. Henderson, City Engr., for water system. Noted Oct. 28.

Tenn., Kingsport—City contemplates water system. W. C. Hattan, Engr.

Tenn., Tiptonville—Citizens voted $7,500 bonds for sewer and water systems.

Ohio, St. Clairsville—Bids will be received until Nov. 15 by Emerson Campbell, County Audr., for repairing reservoir at Belmont County Infirmary.

Ohio, Upper Sandusky—Chester & Fleming, Pittsburgh, Penn., retained by water company to prepare plans for installation of low service pump.

Mich., Albion—Election will be held Oct. 9 to vote $10,000 for completing municipal water system.

Mich., Leslie—Plans being prepared by A. H. Smith Co., Engr., Toledo, Ohio, for water system.

Mich., Quincy—Plans being prepared by A. H. Smith Co., Engr., Toledo, Ohio, for water system.

Mich., Sparta—Plans being prepared by Rumsey & Works, Consult. Engr., Grand Rapids, for water tank and tower.

Ill., Galesburg—(Official)—Citizens voted $95,000 bonds for water system and electric-light plant. Noted Oct. 14.

Ill., Mackinaw—Melluish & Broyhill, Mackinaw, prepared plans for remodeling and improving water system. Noted Sept. 30.

Iowa, Holstein—Citizens voted $18,000 bonds for water system. Bids for sale of same will be received until Nov. 16. Albert G. Merkley, City Recdr.

Kan., Lawrence—Citizens will vote again on $175,000 bonds for purchase and improvement of water system. E. H. Dunmire, City Engr.

Kan., Oswego—Election will be held Nov. 12 to vote on bonds for extension and improvement of water system. J. F. Waskey, Clk. Noted Aug. 19.

Neb., Bayard—Bids will be received by City Clerk until Nov. 11 for 13,200 lin.ft. of 4- to 8-in. c.-i. water mains.

Wyo., Thermopolis—Citizens voted $40,000 bonds for water system.

Mont., Glendive—Plans being prepared by Burns & McDonnell, Consult. Engr., Scarritt Bldg., Kansas City, Mo., for improving water system and filtration plant. Estimated cost, $70,000. Noted Oct. 21.

Mont., Three Forks—Bonds will soon be sold for improvement of water-works system.

Ark., Dardanelle—City plans expenditure of $15,000 for improving water system.

Ark., Malvern—Work will be started about Jan. 1 on installation of water system. Estimated cost with proposed sewerage system, $100,000.

Tex., Sherman—See item under "Light, Heat and Power."

Tex., Temple—City Water Commissioners plan expenditure of $6,000 for improving municipal pumping station.

Okla., Tulsa—Election to vote on $600,000 bonds for storage basin at mouth of Shell Creek postponed from Nov. 2 to Nov. 23. Noted Oct. 14.

Idaho, Aberdeen—Public Utilities Commission, Boise, approved installation of municipal water system. Noted Oct. 7.

Idaho, Twin Falls—City will purchase plant of Twin Falls Water Works Co. Estimated cost, $80,000.

Wash., Metaline—Franchise granted to Harry Lincoln, Metaline, to build water system. Estimated cost, $15,000.

Wash., Seattle—D. Huntington, City Arch., authorized to prepare plans for standpipe on Beacon Ave. near Fountain St. Estimated cost, $50,000.

Calif., Santa Cruz—Election will be held Nov. 6 to vote on $100,750 bonds for purchase of F. A. Hihm Co. water system. Noted Oct. 21.

N. B., St. John—Extensions will be made to water mains in Portland Pl. Estimated cost, $4,600. R. W. Wigmore, Comr.

Ont., Tecumseh—Plans being prepared by Tecumseh Water Works Co. for new water system. Estimated cost, $25,000.

Ont., Toronto—Bids will be received by Board of Control until Nov. 9 for valves, steam piping, steel castings and lagging for main pumping station.

Bids In and Contracts Awarded

N. Y., New York—(Official)—Board of Water Supply awarded contract to NORTHEASTERN CONSTRUCTION CO., 225 Fifth Ave., New York, for two steel frame buildings for drainage chambers, Shafts No. 11 and 12, Catskill Aqueduct, under Contract No. 166. Noted Oct. 28.

N. Y., New York—(Official)—Bids were received Oct. 26 by Board of Water Supply, Municipal Bldg., for buildings at Uptake and Downtake chambers of Hill View reservoir as follows: William H. Egan, Lexington Ave. and 125th St., New York, $94,409; Marble Arch Co., $96,500, and Louis Wechsler, $98,650. Noted Oct. 14.

S. C., Spartanburg—Contract awarded by Water Works Commissioners to HAMILTON MFG. CO., Hamilton, Ohio, at $13,000, for engine and pump for main pumping station. Noted Oct. 14.

Ky., Shelbyville—Contract for filtration plant awarded to NEW YORK CONTINENTAL JEWEL FILTRATION CO., New York, N. Y., at $15,000.

Ohio, Cleveland—Contract awarded to ALABAMA PIPE & FOUNDRY CO., at $8,748, for valve boxes for Department of Public Utilities, Division of Water. Noted Sept. 30.

Ohio, East Liverpool—Contracts for water system awarded as follows: Filter equipment for 6,000,000-gal. mechanical filter to PITTSBURGH FILTER MANUFACTURING CO., Pittsburgh, at $44,324; standpipe to MEMPHIS STEEL CONSTRUCTION CO., at $2,887. Chester & Fleming, Pittsburgh, Penn., Engr.

Iowa, Germania—(Official)—Contract for laying water mains and constructing water system awarded to C. W. ROLAND CO., Des Moines, at $8,041. Noted Oct. 28.

Iowa, Kanawha—Contract awarded to DES MOINES BRIDGE AND IRON CO., at $7,293, for 30,000-gal. steel tank on an 80-ft. tower and 7000 ft. of 4- to 6-in. water main. Noted Sept. 30.

Tex., Galveston—(Official)—All bids received for reconstructing 36-in. submerged water main rejected. A. T. Dickey, City Engr. Noted Sept. 23 and Oct. 7.

Calif., Los Angeles—John G. Gardiner, Byrne Bldg., at $21,938, low bidder, for pipe line in Los Angeles County Water Works District No. 1.

Calif., Sacramento—City Commission awarded contract for concrete chamber at water-works to TEICHTER & AMBROSE, at about $16,000.

Ont., Markham—Contract awarded to NATIONAL IRON WORKS, LTD., Cherry St., Toronto, at $5,750 for pipe, hydrants and valves for water system. Noted Oct. 21.

SEWERS

Proposed Work

Mass., Bridgewater—Citizens voted $10,000 toward constructing a sewer system.

Conn., Windsor Locks—Residents of Wilsons Station voted to form sewer district and will build sewer estimated to cost $12,000.

N. Y., Buffalo—City plans sewers in Exeter Terrace and Camden and North Park Ave.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 11, for sewers in Starling Ave. between Olmsted Ave. and Unionport Rd., Unionport Rd. between Starling and McGraw Ave., between Unionport Rd. and Pugsley Ave. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Municipal Bldg., New York, until 2 p.m., Nov. 10, for making repairs to barrel and box sewers at foot of 26th St. and North River, foot of 37th St. and East River, and foot of 110th St. and East River.

N. Y., Rochester—City will issue $100,000 bonds for sewage-disposal plant.

N. J., Garfield—Anton L. Petersen, Engr., preparing plans for sewer system in Arving Pl. Bids will be received by Frank V. Romaglia, Borough Clk.

Va., Newport News—Board of Alderman contemplates $500,000 bond issue for sewers, sewer purification plant, etc.

Va., Waverly—(Official)—Citizens defeated $55,000 bond issue. Part of proceeds was to be used for sewage-disposal plant. Noted Oct. 28.

S. C., Greenwood—Bids will be received until Nov. 10 for 10,000 ft. of 12- to 29-in. storm sewers. A. S. Hartzog, Mayor.

Ga., Savannah—Plans being considered for trunk sewer to dispose of drainage in western section of city. E. R. Conant, Ch. Engr. Citizens recently voted $400,000 bonds for storm sewer system and house drainage.

Fla., Miami—Bids will be received by W. B. Moore, City Clk., until Nov. 8, for sewer construction in Districts Nos. 1, 2 and 3. Bonds for $50,000 sold for this purpose. Noted Aug. 19 and Sept. 16.

Fla., Monticello—City engaged J. B. McCrary Co., Atlanta, Ga., to prepare plans for sewer system.

Tenn., Tiptonville—See item under "Water Works."

Ohio, East Youngstown—Bids will be received until noon, Nov. 12, by Village Clerk for purchase of $45,000 bonds for sewers and roads.

Ohio, Sandusky—Bids will be received by John J. Molter, Dir. of Pub. Ser., until Nov. 18, for intercepting sewer No. 2. Estimated cost, $98,000. Noted Sept. 16.

Ill., Chicago—Bids will be received by John McGillan, Clk., Sanitary District, 700 South Michigan Ave., until Dec. 2, for Calumet Intercepting Sewer, Contract No. 4. Noted Oct. 7.

Ill., Elgin—Sewage-disposal plant estimated to cost $60,000 will be constructed. Morgan H. Brightman, City Engr.

Ill., Fairbury—City Council contemplates sewer system. G. Lemon, Clinton, probable Engr.

Iowa, Oskaloosa—Plans being prepared by Block & Veatch, Kansas City, Mo., for sewer system. Noted Aug. 12.

Minn., St. Paul—(Official)—Bids will be received by August Hobenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 8, for sewer on West Sixth St. Noted Sept. 30.

Minn., St. Paul—City Council authorized construction of sewer in Capitol Ave. Estimated cost, $127,360.

Neb., Hastings—Bids will soon be received for sewers in Burlington Ave. between Ninth and 12th St., Second St. between Briggs and Baltimore St., Fourth St. between Briggs and Oswego St.

N. D., Grand Forks—(Official)—Bids will be received by W. H. Alexander, City Audr., until 10 a.m., Nov. 6, for Lateral Sewers No. 18, Sewer District No. 5.

Tex., Waco—Citizens defeated $15,000 bonds for extension of sewer system and $75,000 bonds for sewage-disposal plant. Noted Sept. 30.

Idaho, Bonners Ferry—Local Sewer Improvement District No. 1 created by Council for sewer system and disposal plant. Estimated cost, $29,000. C. T. Laschinger, Clk. Noted Sept. 9.

Idaho, Kellogg—Plans being prepared for sewer system in Pressley addition. Estimated cost, $10,000. Noted Oct. 21.

Wash., Seattle—Plans being considered by Committee of Streets and Sewers for sewer system in Rainer Valley. Estimated cost, $1,000,000. A. H. Dimock, City Engr.

Wash., Seattle—Committee of Streets and Sewers of City Council recommended installation of sewers in Sixth Ave., N. W. Estimated cost, $95,052.

Calif., Pomona—Election will be held in November to vote on $15,000 bonds for storm drains in North Garey, Fulton Rd., San Antonia and Alexander Ave.

Calif., Salinas—City contemplates storm sewer system. Estimated cost, $40,000.

Calif., Willows—New sewer district will be formed including all parts of Willows not included in District No. 1. Estimated cost, $35,000. John P. Ryan, City Engr.

Ont., Ottawa—(Official)—R. S. & W. S. Lea, Consult. Engr., Montreal, submitted report on Rideau River Intercepting sewer. Estimated cost, $400,000.

Ont., Toronto—Bids will soon be received for sewers on Adrian, Campbell, Linder Ave. and Miller St. T. L. Church, Chn., Bd. of Control.

Bids In and Contracts Awarded

Mass., Haverhill—(Official)—City will build trunk sewer through North Ave. from head of Marsh Ave. to point near Snows Brook to Primrose St. by day labor. Estimated cost, $13,400. Noted Oct. 28.

N. Y., Rochester—Contracts for sewer construction awarded as follows: Thomas Creek overflow sewer to WHITMORE, RAUBER & VICINUS, at $15,805, Clinton Ave., N., to FRANK LACHIUSA, at $8,772.

N. J., Bayonne—Contract for sewer in East 22nd St. awarded to CHARLES CAVANAUGH, at $19,999.

N. J., Bound Brook—Contract for sewer in Central Ave. awarded to JOHN McNABB. Estimated cost, $16,000.

N. J., Verona—Contracts for sewers and sewage disposal plant (a) Section 1, (b) Section 2, (c) Section 3, (d) Section 4, (e) Sewage disposal plant, awarded as follows: (a) PETRO SCOLO, Glen Ridge, at $31,232; (b) DONATO FUSCO, Montclair, at $17,801; (c) FRANK CARROZA, Baltimore, Md., at $21,632; (d) CARDELL & ROMANO, Montclair, at $17,796; (e) P. L. BRAUNWORTH, Montclair, at $37,292. Noted Sept. 9 and 30.

W. Va., Parkersburg—Contract for six sewers awarded to C. KENNEDY & SON and three to ARTHUR LYONS. Noted Aug. 12.

Ga., Gainesville—Contract awarded to A. P. STEWART for filter plant for sewer system.

Ohio, Cheviot—(Official)—Contract awarded to the J. RUEBEL CONSTRUCTION CO., Cincinnati, for trunk sewer in ravine east of Glenmore Ave., in North Glenmore Ave. Noted Oct. 7.

Ohio, Cincinnati—Contract for sewers in District No. 6 awarded to WORTH & BLESSING, at $30,829.

Ohio, East Liverpool—(Official)—Contract for sanitary sewers awarded to J. W. RYAN & SON, East Liverpool. Noted Oct. 14.

Ind., Indianapolis—Contract for sewer in Michigan St. between Pleasant Run and De Quincy St. awarded to AMERICAN CONSTRUCTION CO., at $26,499.

Ind., Indianapolis—Contract awarded to GEORGE SCHAUER & SON, at $14,256 for sewer in Germania Ave. and first alley west of Mount St.

Mich., Menominee—(Official)—City will build storm sewers by day labor. Noted Oct. 21.

Ill., Marion—Contract for sewage-disposal plant awarded to HOEFFKEN BROS. CONSTRUCTION AND SUPPLY CO., at $7,267.

Wis., Caledonia—Contract awarded to NATIONAL TILE CO., at $15,500 for 18,275 ft. of vitrified drain tile.

Wis., Manitowoc—Contract awarded to T. H. PITZ, at $6,220 for sewers.

Wis., Plymouth—PETER BORST, Port Washington, at $7,569, awarded contract for 11,800-ft. of 6- to 12-in. sanitary sewers.

Iowa, Ames—Contract awarded to DEARBORN CONSTRUCTION CO., Waterloo, at $70,500 for storm and sanitary sewers.

Iowa, Burlington—Bids received by engineer and Councilman Cockrell for sewer in Mt. Pleasant St. as follows: M. M. Daly, $1.225 per lin.ft.; George Peterson, $1.15 and Charles W. Holmes, $1.37.

Iowa, Charles City—Contract for storm sewer system awarded to C. L. HANSON, at $6,788. Noted Oct. 14.

Iowa, Davenport—Contracts awarded by Board of Public Works to HYDRAULIC CONCRETE AND CONSTRUCTION CO., for sewers in Pleasant and Howell St. and to T. J. O'HARA, for sewer in Boise St.

Iowa, Esterville—All bids received Oct. 4 for sewer in North Sixth St. rejected. Noted Sept. 30.

Iowa, Ida Grove—Contract awarded to F. E. WEST, Sioux City, at $5,451, for Old Town sewer.

Iowa, Pella—Contract awarded to HENRY REES, Quincy, Ill., at $9,217, for 14,500 ft. of sanitary sewer. Noted Oct. 14.

Minn., South St. Paul—O'NEILL & PRESTON, at $25,400, awarded contract for sewer pipes on Third Ave. and Third St., S. Noted Sept. 23.

Neb., Lincoln—(Official)—Contract awarded to ABEL & ROBERTS, First National Bank Bldg., Lincoln, at $35,240, for Antelope Conduit for city. Noted Oct. 21.

Neb., Omaha—Contract awarded to PUBLIC SERVICE CO., Krug Theater Bldg., Omaha, for sewers in 43d and Leavenworth St. Estimated cost, $12,000.

Tex., Beaumont—(Official)—Contract for sanitary sewers awarded to the H. W. CARDWELL CONSTRUCTION CO., at $21,716. Noted Oct. 30.

Calif., Compton—Contract for municipal sewer system in Compton awarded to JAMES KENNEDY, Washington Bldg., Los Angeles, at $42,462. Noted Oct. 28.

Calif., Stockton—Contract awarded to A. B. MUNSON & SON, Stockton, at $26,007, for storm water sewer in Main St. to take place of North St. Canal.

Que., Hull.—Contract for sewer construction awarded to J. DUFRESNE, 16 Champlain St., Hull, at $56,000.

Ont., St. Thomas—Contracts awarded to A. E. PONSFORD, LTD., for septic tank, and to WILLIAM IRWIN, for laying pipe for sewer system. Estimated cost, $8,809.

GARBAGE

Proposed Work

Tex., San Marcos—Contract will soon be awarded for garbage incinerator. Estimated cost, $35,000.

Que., Montreal—Report submitted to Board of Control by city incinerator department for incinerator with daily capacity of 500 tons. Estimated cost, $200,000.

Ont., Toronto—Bids will be received until Nov. 9 by T. L. Church, Chn. Bd. of Control, for garbage incinerator on Don Roadway.

Man., Winnipeg—Citizens defeated proposal to build $10,000 garbage incinerator.

STREETS AND ROADS

Proposed Work

Mass., Boston—Bids will be received by Massachusetts Highway Commission, 15 Ashburton Pl., until noon, Nov. 9, for constructing a section of state highway in towns of Sheffield and Great Barrington.

Conn., Ansonia—Report has been submitted estimating cost of widening Clifton Ave., between Division St. and O'Neill Court, at $6,000.

N. Y., Buffalo—City Council ordered repaving with asphalt Arlington Pl. and Packman, Stewart and Washington St.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 11, for paving with bituminous concrete on cement concrete foundation Tiebout Ave. from East 188th St. to Fordham Rd.

N. J., Boundbrook—(Official)—Bids will be received by Borough Council, American Hose Bldg., East Second St., until 8 p.m., Nov. 19, for paving Main St. Noted July 29.

N. J., Trenton—Ordinance passed for paving Arch St. from Cass to Grand St.

Penn., Greensburg—(Official)—Bids will be received by John S. Sell, County Controller, until noon, Nov. 15, for improving Harrison-City Export Rd. and Hecla-Hurst School House Rd.

Penn., Pittsburgh—(Official)—Bids will be received by Hyatt M. Cribbs, County Controller, until 10 a.m., Nov. 12 for improving Glenn Ave. and Wible Run Extension Rd.

Del., Wilmington—Bids will soon be received for resurfacing with bituminous material the following roads: Odessa to Boyds Corner on Old King Highway, Mt. Pleasant to Middleton via State Rd. and Newark to Glasgow via Coogh's Bridge.

Md., Easton—Bids will be received until Nov. 9 by J. B. Harrington, Clk., for 2.18 miles of shell road from Trappe to Barber under Contract No. 359; one mile of shell road from Bruceville to Windy Hill, under Contract No. 369; 1.06 miles shell or macadam on concrete road from Easton to Easton Point, under Contract No. 401.

W. Va., Huntington—Bids will be received until Nov. 8 by O. H. Wells, Comr. of Streets and Alleys, for paving sections of Sixth, 11th and 13th Ave.

N. C., Asheville—City plans to pave Beaumont St. from Hazard to Miller St. and construct sidewalks on west side of Marjorie St.

N. C., Charlotte—Contract will be awarded about Nov. 11 for 17,500 sq.yd. sidewalks.

N. C., Rockingham—Richmond County will issue $25,000 bonds for road improvements. B. F. Reynolds, County Clk.

N. C., Winston-Salem—Election will probably be held in December to vote on $50,000 bonds for road construction in Yadkin County.

S. C., Greenville—Bids will be received by A. S. Hartzog, Mayor, until Nov. 10, for 60,000 sq.yd. street paving, 10,000 sq.yd. cement gutters and 12,000 lin.ft. of granite curb.

Fla., Bronson—(Official)—Bids will soon be received for road work in Levy County. J. B. McCrary Co., Atlanta, Ga., Engr.

Fla., Gulfport—Citizens voted $9,000 bonds for two miles of modified asphalt streets. Noted Sept. 2.

Fla., Lakeland—Election will soon be held in Polk County to vote on $1,000,000 bonds for road construction.

Fla., Mayo—(Official)—J. B. McCrary Co., Atlanta, Ga., Jacksonville and St. Petersburg, Fla., engaged to prepare plans for roadwork in Lafayette County. Estimated cost, $300,000. Noted Sept. 23.

Fla., Miami—Bids will be received by W. B. Moore, City Clk., until Nov. 8, for grading and paving about 15,000 sq.yd. with asphaltic concrete and binder course on concrete foundation; also grading and paving with sand and asphaltic oil about 10,000 sq.yd. of streets.

Fla., New Smyrna—Citizens of south end of Volusia County voted to form road and bridge district and to issue $250,000 bonds for road across county from beach to St. Johns River, Sanford, hard surface road to De Land and John Anderson Highway from Rose Bay to Brevard county line.

Fla., Pensacola—Election will soon be held to vote on proposition to issue $500,000 bonds for roads.

Fla., Tallahassee—(Official)—Bonds for $200,000 for roads will soon be offered for sale. J. B. McCrary Co., Atlanta, Ga., Engr.

Ala., Dothan—Bids will be received until Nov. 18 by A. C. Crawford, Chn. of Houston County Bd. of Revenue, for constructing 21 miles of road. Estimated cost, $75,000. Noted Sept. 30.

Ala., Mobile—A plan has been submitted to Alabama & Mississippi Gulf Coast Highway Association for highway between Mobile and Baldwin Counties. Work will also include bridge across Spanish River and ferry over Mobile and Tensaw River. Estimated cost, $105,000. Baldwin County plans $55,000 bond issue to pay its portion of project.

Miss., Brookhaven—Commissioners of Lincoln County, District No. 1, plan to construct two miles of gravel roads.

La., Crowley—Plans being considered for constructing 150 miles of gravel roads in Acadia Parish. Estimated cost, $750,000.

La., Donaldsonville—Citizens of Ascension Parish, Road District No. 2, voted $50,000 bonds for road work. Noted Sept. 23.

Tenn., Bristol—Bonds for $8,000 sold for street improvements.

Tenn., Harriman—Appropriation of $32,000 made by Roane County Court for completing pikes in various districts.

Tenn., Murfreesboro—Election will be held about Dec. 15 in Rutherford County to issue $175,000 bonds to purchase and maintain turnpikes. Noted Sept. 30.

Tenn., Pulaski—Election will be held Dec. 20 to vote on $500,000 bonds for roads in Giles County. Noted Oct. 14.

Ky., Catlettsburg—Commissioners of Boyd County contemplate an expenditure of $75,000 for road construction.

Ky., Crittendon—Bonds for improving a number of streets defeated by citizens.

Ky., London—Contract will soon be awarded for 14 miles of Dixie Highway and Boone Way between London and Corbin.

Ky., Louisville—An expenditure of $7,400 voted by Jefferson County Fiscal Court for emergency road work.

Ky., Paducah—Bids will soon be received for improving Hinkleville Rd. from Little Union schoolhouse to Lamont. Estimated cost, $8,836.

Ky., Winchester—Commissioners of Clark County plan to call election to vote on $25,000 bonds for two miles of road under State-Aid law. Noted Aug. 12.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received until noon, Nov. 15, by H. H. Canfield, Village Clk., for constructing sidewalks on Somerton Rd. from Walton to Superior Rd.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received until noon, Nov. 15, by H. H. Canfield, Village Clk., for grading, draining and paving Corydon Rd., paving Cottage Grove Drive and grading, draining and paving Essex Rd.

Ohio, East Youngstown—See item under "Sewers."

Ohio, Marietta—Bids will soon be received for paving a number of streets. Estimated cost, $6,500. E. F. Gates, City Engr.

Ind., Columbus—Bids will be received about Nov. 15 for two crushed stone and one gravel road, each 2½ miles long. W. H. Scott, Audr., Bartholomew County.

Ind., Ft. Wayne—Bids will be received until 2 p.m., Dec. 1, for purchase of $15,000 bonds for roads in Wayne Trace County.

Mich., Au Gres—Election will be held Nov. 25 to vote on $30,000 bonds for roads.

Mich., Corunna—According to press reports an election will be held in Shiawassee County in 1916 to vote on $200,000 bonds for road construction.

Mich., Pontiac—Election will be held in April to vote on $1,000,000 bonds for roads.

Mich., St. Ignace—Election will soon be held to vote on $200,000 bonds for constructing county roads.

Mich., St. Joseph—(Official)—Bids will be received by Board of Road Commissioners of Berrien County until Nov. 11 for 48½ miles of water bound macadam roads. Estimated cost, $340,000. W. Cleary, County Highway Engr.

Mich., Standish—Election will be held Nov. 27 to vote on $30,000 bonds for road improvements in Whitney Township.

Ill., Alton—Plans being considered for paving Staunton St. with brick.

Ill., Champaign—An expenditure of $22,000 planned by Board of Supervisors for oiled road.

Ill., Rock Island—Bids will soon be received for paving Eighth Ave. from 24th to 29th St. Estimated cost, $15,000. Noted Oct. 14.

Wis., Birchwood—Bond issue for $5,000 contemplated for street improvements.

Iowa, Lyons—Plans being considered for paving Sixth and Main St.

Minn., Duluth—Grand Ave. from 29th to 54th Ave., West, will be improved. Estimated cost, $130,000. J. A. Farrell, Comr. of Pub. Wks.

Kan., Hiawatha—An expenditure of $200,000 planned by Commissioners of Brown County for concrete road across county.

Kan., Newton—City Council passed ordinance providing for paving, curbing and guttering of Broadway from west side of Kansas Ave. to Logan St.

Kan., Topeka—Commissioners of Shawnee County contemplate an expenditure of $50,000 for repairing and constructing highways.

Kan., Wichita—Contract will be awarded about Nov. 22 for about 1,200 sq.yd. of 3-in. vertical fiber vitrified paving block on 5-in. concrete case, also 500-ft. of curbs.

Mo., Lexington—Bonds for $55,000 voted by Lafayette County, Special Road District, to rock gap in Old Trails Rd. and to repair bridges and culverts.

Tex., Austin—Citizens voted $425,000 bonds for street improvements and bridges. Noted Sept. 16.

Tex., El Paso—City plans to pave portions of Nevada, East Rio Grande, Chihuahua and West Blvd.

Tex., Hondo—Bids will be received until Nov. 8 by H. F. Wurzbach, Comr. of Medina County, Cliff, for about 20 miles of gravel roads.

Tex., Houston—County Commissioners appropriated $200,000 for road work.

Tex., Jacksonville—Election will be held Nov. 16 to vote on $150,000 bonds for improving roads in Road District No. 1.

Tex., Oakville—Bond issue for road construction contemplated by Live Oak County, Precinct No. 2.

Tex., Orange—Citizens of Orange County, Precinct No. 4, voted $7,000 bonds for shell or gravel road on lower Beaumont Rd. Noted Sept. 23.

Tex., Sherman—See item under "Light, Heat and Power."

Tex., Tyler—Election will soon be held to vote on $100,000 bonds for constructing roads.

Tex., Victoria—Bonds for $30,000 sold for street improvements.

Tex., Weimar—Election will probably be held to vote on $100,000 bonds for road improvements.

Okla., Drumright—Plans being considered for paving Broadway.

Okla., Inola—Election will be held Nov. 6 to vote on $30,000 bonds for road construction.

Okla., Talihina—Citizens voted $50,000 bonds for roads and bridges.

Idaho, Wallace—Plans submitted to construct boulevard of Fourth of July Canyon which connects national highway through Wallace and Cœur d'Alenes with Apple Way leading to Spokane. Estimated cost, $45,000.

Wash., Centralia—All bids received for hardsurfacing Veness Rd. in south end of town rejected. New bids will be received.

Wash., Everett—City Commissioners have authorized improvement of 41st St. from Rucker to Crescent St.

Wash., Montesano—County Commissioners have appropriated a sum for the Montesano-Cosmopolis Rd. which is to be built next year.

Wash., Port Orchard—County Commissioners have passed resolution authorizing expenditure of $5,000 for road construction on Bainbridge Island.

Ore., Pendleton—G. Kimbrell, City Engr., instructed to prepare plans for improvement of Riverside Drive from Main to Railey St.

Ore., Pendleton—William Bradley, County Surveyor, submitted report estimating cost of highway between Umatilla and Pendleton, at $51,620.

Calif., Bakersfield—Bids will be received until Nov. 8 by Board of Supervisors for improving Section No. 7, Bakersfield-Mojave Rd.

Calif., Fresno—City Council plans to pave Santa Fe Ave. Estimated cost, $45,000. B. E. Cronkite, City Engr.

Calif., Pomona—Election will be held sometime in November to vote on $50,000 bonds. Part of proceeds will be used for grading and oiling streets and culverts.

Calif., Richmond—Southern Pacific Co. plans to pave Cutting Blvd. Estimated cost, $5,500.

B. C., New Westminster—City Council plans to grade and macadamize Seventh and Belmont St. and Fifth Ave. Estimated cost, $7,850.

Bids In and Contracts Awarded

Mass., Wareham—Contract for 8,750 ft. of highway awarded to THOMAS N. MURPHY, Middleboro, at $9,293. Noted Oct. 14.

N. Y., Albany—(Official)—Bids were received Oct. 26 by State Highway Commission, 55 Lancaster St., for constructing highways by State-Aid as follows:

Road No. 1249, Albany County, 3.41 miles: George J. Curran, Middletown, Conn., $27,855; Huntoon & Ferguson, Hudson Falls, $29,719; A. N. Hoyt, Albany, $30,000.

Road No. 5532, Allegany and Steuben County, 5.25 miles: Kennedy Construction Co., Albany, $50,881; J. G. Hayes Co., Inc., Rome, $51,975; Greenfield Construction Co., Hornell, $52,064.

Road No. 1327, Cayuga County, 6.06 miles: John H. Gordon, Albany, $52,010; Michael H. Ripton, Rochester, $52,110; John G. Hayes & Co., Inc., Rome, $53,054.

Road No. 5594, Clinton County, 3.79 miles: Bluff Point Stone Co., Inc., Plattsburg, $29,160; Boynton & McNally, Keeseville, $30,079; Routley & Summers, Huntingdon, Que., $30,755.

Road No. 1331, Columbia County, 4.27 miles: Russo-Parker Construction Co., Hudson, $39,756; Marks Kearney, Hudson, $39,757; Rumph & Stevens, Lake Placid, $2,290.

Road No. 1332, Columbia County, 7.77 miles: Marks Kearney, Hudson, $62,186; Russo-Parker Construction Co., Hudson, $63,957; Gruner & Hollenbeck, Harriman, $66,659.

Road No. 5595, Cortland County, 3.65 miles: T. H. Gill Co., Binghamton, $39,759; Dana W. Robbins Co., Inc., New York, $40,959; James Rossney, Buffalo, $41,415.

Road No. 1333, Erie County, 9.14 miles: Shanley Construction Co., Buffalo, $141,828; Atlanta Construction Co., Atlanta, $141,094; F. H. Wells, Corfu, $142,263.

Road No. 1334, Erie County, 4.30 miles: Langan Construction Co., Albany, $70,049; Henry P. Burgard Co., Buffalo, $74,886; Larry W. Roberts Co., Utica, $73,991.

Road No. 1335, Erie County, 4.50 miles: Stanley Construction Co., Buffalo, $57,914; Bison City Engineering and Construction Co., Inc., Buffalo, $58,083; F. H. Wells, Corfu, $58,095.

Road No. 1336, Erie County, 5.19 miles: George Neilons, Grand Island, $56,250; John W. Landel, Tonawanda, $59,211; F. J. Mumm Contracting Co., Buffalo, $64,239.

Road No. 5582, Genesee County, 4.53 miles: Chilson & Gibson, Leroy, N. Y., $44,893; Greenfield Consolidated Co., Hornell, $46,094; H. E. Benedict, Williamsport, Penn., $48,063.

Road No. 5593, Livingston County, 7.09 miles: James Anderson, Albany, $63,063; Hendrickson-McCabe Construction Co., Spencerport, $63,554; Ribstine-Holter Co., Rochester, $65,070.

Road No. 1110, Madison County, 3.05 miles: Mohawk Engineering Co., Mohawk, $26,151; Fort Schuyler Construction Co., Oneida, $26,590; Michael O'Brien, Cortland, $27,039.

Road No. 1328, Monroe County, 0.73 mile: Whitmore-Rauber & Vicinius, Rochester, $12,927; Ribstine-Holter Co., Inc., Rochester, $13,113; Julius Friedrich & Co., Inc., Rochester, $13,218.

Road No. 1327, Monroe County, 2.91 miles: Ribstine-Holter Co., Inc., Rochester, $35,548; Langan Construction Corporation, Albany, $37,369; Whitmore-Rauber & Vicinius, Rochester, $38,465.

Road No. 5547, Oneida County, 0.70 mile: Langan Construction Corporation, Albany, $17,187; Harry W. Roberts Co., Utica, $18,795; H. B. Sproul Construction Co., Inc., Peekskill, $19,291.

Road No. 448, Part 2, Orange County, 3.64 miles: Armstrong and Trowbridge, Middletown, $29,868; John Arborio, New Haven, Conn., $30,911; Jackson Bros., Cuddebackville, $31,308.

Road No. 449, Orange County, 5.17 miles: Armstrong & Trowbridge, Middletown, $21,399; A. Buggiens, Wurtsboro, $20,542; John Arborio, New Haven, Conn., $21,925.

Road No. 1329, Orange County, 3.70 miles: Samuel M. Serlesine, New York, $47,269; Heisler & Aldershoff, Albany, $51,574; Belmar Contracting Co., Troy, $52,696.

Road No. 5545, Schenectady County, 5.62 miles: George J. Curran, Middletown, $38,777; John B. Dower, Ballston Spa., $42,983; D. I. Snell & Co., Canajoharie, $48,820.

Road No. 5589, Seneca County, 5.01 miles: Greenfield Construction Co., Hornell, $43,719; Thomas Grady, Rochester, $46,454.

Road No. 5510-A, Sullivan County, 0.43 mile: Henry McNamee, Eddyville, $7,947; Samuel Serliesine, New York, $8,188; John J. Keating, Monticello, $8,337.

Road No. 1079, Tioga County, 4.07 miles: Peter F. Connolly Co., Horseheads, $30,602; Lane Construction Corporation, Meriden, Conn., $32,752; Hendrickson-McCabe Construction Co., Spencerport, $32. 939.

Road No. 1330, Tompkins County, 2.48 miles: Greenfield Construction Co., Hornell, $26,447; Richard Hopkins, Troy, $26,986; Kendor Engineering and Construction Co., Inc., Buffalo, $27,618.

Road No. 603, Ulster County, 10.24 miles: Armstrong and Trowbridge, Middletown, $82,935; Cairnie-St. George Co., New York, $89,684; George H. McAvoy, Creek Locks, $89,742.

Noted Oct. 26.

N. Y., Buffalo—Contracts for paving awarded as follows: Mortimer St. to HENRY B. BURGARD CO., 1968 Fillmore Ave., at $25,225, and Virgil Ave. from Hertel Ave. to Tacoma Pl. to GERMAN ROCK ASPHALT AND CEMENT CO., LTD., at $12,120.

N. Y., Buffalo—Contract for paving Casimir St. awarded to GERMAN ROCK ASPHALT AND CEMENT CO., LTD., at $16,000, and to ERIE CONTRACTING CO., at $32,000, for Rees St.

N. J., Fairview—Contract for paving Walker and Lincoln St. awarded to BERGEN CONTRACTING CO., Cliffside, at $22,500.

N. J., New Brunswick—Thomas F. Dunigan, Woodbridge, at $29,148, submitted lowest bid for improving Amboy Ave. from city line at Spa Springs to Myrtle Ave., and at $5,749 for improving New Brunswick Ave.

Penn., Philadelphia—Union Paving Co., 30th and Locust St., Philadelphia, at $17,163, submitted lowest bid for surfacing with bituminous on 5-in. concrete base.

Md., Baltimore—State Roads Commission awarded contracts for road work as follows: Anderson Mill Rd., Wicomico County, to JUNIATA CO., Empire Bldg., Philadelphia, Penn., at $12,885; Concord Camp Rd., Caroline County, to PHILLIPS & RENSHAW, Preston; Marydel Rd., Caroline County, to S. S. ANDREWS & SON, Cambridge; Glenburnie Rd., Anne Arundel County to F. M. DUVALL, St. Margaret, at $14,676; Big Pool Rd., Washington County, to HOLLINGER & DENIN, Clearspring, at $14,103. Noted Sept. 23.

Va., Petersburg—Contract for granite block paving awarded to K. L. BLACK, Richmond.

Va., Princess Anne—Contract for three miles of Ocean Park Highway awarded to VESTA CONSTRUCTION CO., Terrace Fork, at $4,185.

Fla., Ft. Myers—Contract for Ft. Myers-Marco Rd. awarded to C. W. CARLTON, M. B. DAVIS and W. C. HILL; contract for Mt. Myers-Naples Rd. awarded to W. R. WALLACE CO. Bonds for $177,500 voted for this purpose. Noted Sept. 2.

Fla., Glen Cove Springs—(Official)—Board of County Commissioners of Clay County awarded contract for road work in Special Road and Bridge District No. 1 to J. B. McCRARY CO., Atlanta, Go. Estimated cost, $122,000.

Fla., Pensacola—(Official)—All bids received for paving streets around Pensacola Hospital rejected. Estimated cost, $10,000. Noted Oct. 7.

Fla., Tampa—Contract for 50,000 lin.ft. of concrete curbing awarded to CORNWELL CONSTRUCTION CO., Tampa.

Fla., Wauchula—Contract for approximately 12,000 sq.yd. brick paving awarded to ALABAMA PAVING CO., American Trust Bldg., Birmingham, Ala.

Ala., Gadsden—Contract for rebuilding Steele Station Rd. awarded to I. W. GILBERT, at $4,991.

Ala., Sulligent—Contract for road from Sulligent to Marion County line, about 18 miles, awarded to B. G. EDGAR, Vernon, by Lamar County Commissioners, Vernon.

Miss., Ackerman—Contract for concrete sidewalks awarded to W. L. DAMON, Okolona, at about $25,000.

Miss., Columbus—S. E. FINDLAY CO., Atlanta, Ga., awarded contract for surfacing with tarvia 4½ miles Military Rd.

Tenn., Newport—Contract for grading and macadamizing roads in Cocke County awarded to R. L. PETERS, at $150,900. Noted Oct. 7.

Ky., Central City—Contract for four miles of pike awarded to W. S. MARTIN, Evansville, for labor, and to TRI-STATE STONE CO., Cerulean, for rock. Estimated cost, $25,000.

Ky., Paducah—CRESAP BROS., Humboldt, Tenn., at $9,000, awarded contract for six miles of road.

Ohio, Cincinnati—Contract for improving Van Zandt Rd. and Wayne Ave. awarded to HENRY WESTERMAN, Barnesburg, at $14,107.

Ohio, Coshocton—Contract for 9,900-ft. brick and macadam on Coshocton-West Lafayette Rd. awarded to COSHOCTON CONSTRUCTION CO., at $35,740.

Ohio, Hamilton—Contract for paving North Second St. from Black to Third and Washington St. awarded to ANDREWS ASPHALT PAVING CO. Estimated most, $12,551.

Ohio, Middletown—Contract for grading roadway on Michigan and York Ave. from Garfield Ave. to Walnut St. and Sycamore St. from Armco Ave. to south corporation line awarded to OWEN BANON.

Ind., Ft. Wayne—Contract for paving Rudisill Ave. from Calhoun St. to Broadway awarded to MOELLERING CONSTRUCTION CO., Fort Wayne, at $26,613.

Ind., Franklin—(Official)—Contract for gravel road on Johnson-Marion County line awarded to JOHN W. MURPHY. Noted Sept. 23.

Ind., Indianapolis—Contract for paving 19th St. awarded to A. L. TRIBBLE, Brazil, at $46,878.

Ind., Muncie—Contract for improving Rector Rd. awarded to CURTIS V. RECTOR, at $9,000.

Ind., New Albany—W. F. WOODRUFF, Louisville, Ky., at $13,987, awarded contract for paving 10,590-ft. Grant Line Rd.

Ind., Paoli—Contract for ¼ mile of macadam pavement awarded to GEORGE A. CHARLES, West Baden, at $5,863.

Ind., Vincennes—(Official)—Contract for paving Second St. from Main to Church St. with trinidad lake asphalt awarded to PREMIER CONSTRUCTION CO., Indianapolis, at $4,335. Noted Oct. 21.

Mich., Fairfield—Contract for macadam road from state line north to Jasper awarded to GRAY BROS., Bowling Green, at $26,900.

Ill., Alton—Contract for repaving East Second St. awarded to STRUBEL & HELMICK, at $19,457.

Ill., Chicago Heights—Contract for paving 16th and Wentworth St. awarded to CHICAGO HEIGHTS COAL CO., at $70,087.

Wis., Ashland—Contract for grading 16 miles of road awarded to FISH & O'CONNOR, at $8,778.

Minn., Fergus Falls—Contract for grading Laurel St. between Broadway and Buse St. awarded to H. R. BUTLER. Noted Sept. 30.

Minn., Mendota—Contract for paving 11th St. from Joliet to Hennepine St., Hennepine St. from 9th to 11th St. and 19th St. from Hennepine to Tonti St. awarded to T. W. KEYS, La Salle, at $13,935.

Kan., Horton—Contract awarded to KAW PAVING CO., Topeka, for paving, curbing and guttering Lincoln St. from Mina to North St., High St. from North to Garrett St., Rock Island Ave. from North to Garrett St. and Whiteside St. from Main to Rock Island Ave., at $1.51 for paving and 60c. for curbing and guttering.

Neb., Lincoln—Contract for paving Tenth St. awarded to BURKE-COCHRANE CONSTRUCTION CO., at $10,955; portion of Ryon St. to ABEL & ROBERTS, Lincoln, at $7,857.

Mont., Livingston—(Official)—Contract for paving Park St. awarded to WARREN CONSTRUCTION CO., at $8,000. Noted Oct. 14.

Mo., Kansas City—Contract for grading about 70,000 yd. of Ward Parkway from 57th St. to Meyer Blvd. awarded to E. MEEGAN, 4th and Main St., Kansas City, at $0.138 per cu.yd.

Ark., De Witt—Contract for paving awarded to M. J. COLE, JR., Little Rock. Estimated cost, $25,000.

Ark., Little Rock—Contract for constructing sidewalks in District No. 228 awarded to OGLESBY BROS., Monticello, at $5,158.

Tex., Dallas—Contract for paving East Houston Ave. from Lafayette to Albert St. awarded to BERT HAHN CONSTRUCTION CO.

Tex., Graham—Contract for repairing roads and bridges awarded to L. G. HAMILTON. Estimated cost, $20,000.

Tex., Mineral Wells—Contract for paving about 50,000 sq.yd. with asphalt macadam and about 30,000 lin.ft. curbing and guttering awarded to FRANK WHITLEY, Mineral Wells.

Wash., Okanogan—Contract for permanent highway No. 4-A awarded to DOUGLAS & HILL, Tonasket, at $4,300.

Wash., Olympia—Contract for seven miles of highway from Colfax to Rosalia, Whitman County, awarded to W. G. MULLIGAN CO., Spokane, at $21,120, and road on Inland Empire highway in Walla Walla and Columbia Counties between Waitesburg and Dayton to GENERAL CONSTRUCTION CO., Spokane, at $13,243. Noted Oct. 28.

Wash., Seattle—Contract for Issaquah Rd. awarded to GEORGE A. BANDERT, Renton, at $7,199.

Wash., Seattle—Holt & Jeffrey, Railway Exchange Bldg., Seattle, at $11,169, submitted lowest bid for paving 14th Ave.

Wash., Seattle—Independent Asphalt Paving Co., Seattle, at $26,685, submitted lowest bid for paving 47th Ave., N. E. Noted Sept. 16.

Wash., Shelton—Contract for section of permanent highway awarded to F. L. BROWN, Portland, at $7,200.

Wash., Stevenson—Bids were received for improving Second St. from R. D. Shelly, at $4,435, and H. J. Hildeburn, at $5,004.

Ore., Portland—Contract for paving East 23rd, East 24th, and Franklin St. will probably be awarded to GIEBISCH & JOPLIN, Portland, at $13,013.

Calif., Bakersfield—Contracts for paving awarded as follows: McKittrick-Bakersfield Rd. to SHATTUCK & NIMMO WAREHOUSE CO., at $28,802; Weed Patch Loop to WORSWICK STREET PAVING CO., at $31,460. Noted Oct. 21.

Calif., Hollister—Contract for improving Tres Pinos-Paicines Rd. awarded to JOHN McREYNOLDS, San Jose, at $7,941.

Calif., Manhattan Beach—(Manhattan post office)—MODERN CONSTRUCTION CO., Los Angeles, at $8,247, awarded contract for paving Sixth, Seventh and other streets. L. Price, City Clk.

Calif., Sacramento—(Official)—Bids were received Oct. 8 by State Highway Commission for constructing roads in various counties as follows: (a) Conomo County, Div. 4, Route 8, Section A, (b) Placer County, Div. 111, Route 3, Section B, (c) Mariposa County, Div. 6, Route 18, Section A; (a) Spring Construction Co., Berkeley, $22,852; Bates, Borland & Ayer, Oakland, $22,183; P. H. Hoare, Oakland, $24,869; (b) Whitelock & Gorrill, Durham, $50,582; Twohy Bros. Co., San Francisco, $49,114; C. H. and A. W. Gorrill, San Francisco, $47,340; (c) George R. Daley, San Diego, $42,749; G. W. Connors, Eureka, $46,860; Toohey & Johnson, Dunsmuir, $45,285. Noted Oct. 7.

Calif., Vacaville—Bids were received for completing state highway through Vacaville as follows: Bentley & Gates, $10,854; Blumenkranz & Co., $11,465; Wrightson & Jost, $11,152.

INDUSTRIAL WORKS

Proposed Work

Conn., New Haven—Plans being prepared by R. W. Foote, Arch., for two-story, 32x100-ft. garage for G. W. Baldwin & Son.

Conn., Waterbury—Waterbury Farrell Foundry and Machine Co. plans two-story 75x150-ft. brick and steel mill.

N. Y., Albany—Bids will soon be received by Fuller & Robinson, Arch., 95 State St., for nine-story warehouse and show room at 75 State St. for Kinney & Woodward.

N. Y., Buffalo—Gilford Mfg. Co. plans three-story brick addition. Estimated cost, $17,000.

N. Y., Cohoes—John Garside & Co. plans plant. Estimated cost, $10,000.

N. Y., Niagara Falls—E. I. Du Pont de Nemours Powder Co. has asked for permit to build plant.

N. Y., Syracuse—H. H. Franklin Mfg. Co. plans additions to plant. Estimated cost, $500,000.

N. Y., Warren—U. G. Lyons, Pres. of Conewango Refining Co., has secured 40 acres of land in North Warren and will build a refining plant.

Penn., Norristown—Bids will soon be received by Peckert & Wunder, Arch., 310 Chestnut St., Philadelphia, for bottling house for Adam Scheidt Brewing Co. Estimated cost, $50,000.

Penn., Philadelphia—Bids will soon be received by Bauer & Hahn, Arch., 1112 Chestnut St., for four-story, 54x100-ft. factory for M. Rice & Co. Noted Oct. 28.

Penn., Wilkes-Barre—Henry A. Maier, Arch., Coal Exchange Bldg., prepared plans for five-story, 52x120-ft. brick building for R. S. Williams, 124 East Market St. Building leased by Planters Nut & Chocolate Co., 79 East Northampton St.

Md., Baltimore—Plans prepared for cold-storage plant for Maryland Cold Storage Co.

Md., Baltimore—Leon Rosst, 1902 Eutaw Pl., Vice-Pres. Spanish-American Trading Co. purchased Mt. Vernon Brewery and will improve plant for guncotton factory.

W. Va., Huntington—C. D. Cooley Co., Arch., Century Bldg., Pittsburgh, preparing plans for three-story 100x100-ft. ice cream factory for J. L. Wilson. Estimated cost, $100,000.

W. Va., Wheeling—United States Stamping Co. will build 150x160-ft. addition.

N. C., Wilmington—Hilton Compress and Warehouse Co. will build compress and warehouse. Estimated cost, $50,000.

Ohio, Ashtabula—Plans prepared and bids being received for factory for Cleveland Ford Tire Co. Noted Oct. 21.

Ohio, Canal Dover—Dover By-Product Coke Co. will soon start work on 20-ton coke plant in yards of Penn Iron and Coal Co.

Ohio, Hamilton—Huss Furniture Co. Hamilton, formerly Huss Bros. Mfg. Co., Cincinnati, will build factory.

Ohio, Lima—Lima Brick and Tile Co., Taft Ave., increased capital from $30,000 to $50,000 and will enlarge plant.

Ohio, Massillon—(Columbus Heights)—Central Steel Co. contemplates mill.

Ohio, Reading—Tubular Steel Products Co. contemplates steel plant on Reading Rd.

Ohio, Toledo—Plans being prepared by Devore & McGormley, Arch., 304 Nasby Bldg., for three-story laundry building for Bancroft Realty Co. Estimated cost, $54,000.

Ohio, Toledo—Preliminary plans being prepared by Mills, Rhines, Bellman & Nordhoff for factory on Smead and Lincoln Ave. for Doehler Die Castings Co.

Ohio, Toledo—Electric Auto Lite Co. plans addition. Estimated cost, $100,000.

Ohio, Youngstown—Briar Hill Steel Co. will build two open-hearth steel furnaces. Estimated cost, $500,000.

Ind., Anderson—Pierce Speed Controller Co. plans factory at Ninth St. and Central Ave.

Ind., Kokomo—Apperson Bros. Automobile Co. will build 151x344-ft. factory.

Mich., Buchanan—E. B. Clark, Pres. Celfor Tool Co., and Buchanan Electric Steel Co. contemplates 136x300-ft. addition to plant.

Ill., Chicago—Burt Baker plans one-story brick warehouse on South Green St. F. O. DeMoney, Arch. Estimated cost, $10,000.

Ill., Chicago—Chalmers Motor Co. will build a five-story addition. A. S. Alachuler, Arch., 28 East Jackson Blvd. Estimated cost, $20,000.

Ill., Chicago—Conella Bakery Co. plans two-story bakery at 2006 West Erie St. W. H. Jruyn, Jr., Arch. Estimated cost, $30,000.

Ill., Chicago—Plans being prepared by A. S. Alschuler, 28 East Jackson Blvd., Arch., for two-story, 177x193-ft. factory for the Hump Hairpin Co. Estimated cost, $150,000. Noted Sept. 30.

Ill., Chicago—Selta Star Electric Co. will build one-story brick factory at 2433 Fulton St. R. G. Pierce, 10 South LaSalle St., Arch. Estimated cost, $16,000.

Ill., Chicago—C. Teich plans three-story factory at 1821 Berteau Ave. K. M. Vitthum, Arch. Estimated cost, $40,000.

Ill., Chicago—Union Petroleum Co. plans two-story building on 43d St. Estimated cost, $150,000.

Ill., Peoria—Plans being prepared by Hotchkiss & Harris, Arch., Herald-Transcript Bldg., for 60x180-ft. factory for Chic Apron Co., 215 South Adams St. Noted Oct. 28.

Minn., South St. Paul—Armour & Co. plans packing plant.

Mont., Great Falls—Kurt Grundwal of the Holly Sugar Co., Denver, Colo., will build beet sugar factory.

Mo., St. Louis—G. A. Von Brocht purchased plant of Austin Candy Co. and will improve and install new machinery. Estimated cost, $100,000.

Mo., St. Louis—(South St. Louis)—Monsanto Chemical Works will soon build addition on Lafayette Ave. Estimated cost, $60,000.

Tex., San Antonio—(Official)—Bids will be received until Dec. 1 for enlarging plant of Dixie Oil and Refining Co. Estimated cost, $40,000. Noted Oct. 21.

Okla., Sand Springs—Charles Page is interested in formation of company to build cotton mill. Estimated cost, $500,000.

Colo., Denver—Press reports state that Austin Daly Co. plans addition and will install machinery. Estimated cost, $100,000.

Colo., **Denver**—Colorado Packing and Provision Co. contemplates building plant. Estimated cost, $350,000.

Ont., **Cache Bay**—George Gordon & Co. will rebuild sawmill recently destroyed by fire. Estimated cost, $75,000.

Ont., **Toronto**—George H. Gooderham plans garage on University Ave., Toronto. Estimated cost, $30,000.

B. C., **Vancouver**—B. T. Bishop will build machine shop on Granville St. Estimated cost, $25,000.

Bide In and Contracts Awarded

Mass., **Boston**—Contract awarded to FRED T. LEY CO., INC., for four-story 60x200-ft. factory for King Estate.

Mass., **Brookline**—Colonial Realty Trust Co. has awarded contract to BOYD & BERRY, 11 Crampian Way, for one story, 114x116-ft. garage. Estimated cost, $28,000.

Conn., **Bristol**—Contract awarded to LEVERING & GARRIGUES CO. for rolling mill for Bristol Brass Co. Noted Oct. 21.

Conn., **Waterbury**—Waterbury Farrell Foundry & Machine Co. awarded contract to H. WALES LINES CO., Meriden, for two-story, 75x150-ft. mill building. Noted Oct. 28.

N. Y. **Binghamton**—Ansco Co. awarded contract to JOHN L. LEWIS CO., for four-story brick factory. Estimated cost, $20,000.

N. Y., **Buffalo**—(Official)—Automatic Transportation Co., Main St., Buffalo, awarded contract for 53x146 ft. warehouse and blacksmith shop to TURNER CONSTRUCTION CO., 11 Broadway, N. Y.

N. Y., **Buffalo**—(Official)—Contract for four-story, 81x106 ft. warehouse and show room for Robertson Cataract Electric Co. awarded to TURNER CONSTRUCTION CO., 11 Broadway, N. Y.

N. Y., **Niagara Falls**—(Official)—Carborundum Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, N. Y., for two-story, 80x144 ft. addition to kiln building.

N. J., **Camden**—New York Shipbuilding Co. awarded contract to DOYLE & CO., 1519 Sanson St., Philadelphia, for one-story, 80x200-ft. warehouse.

N. J., **Camden**—Contract awarded to GEORGE KOSSLER CONTRACTING CO., Drexel Bldg., Philadelphia, for factory and warehouse for Eavenson & Levering.

Penn., **Meadville**—Contract for rebuilding Erie freight house awarded to W. K. BYHAM.

Penn., **Reading**—D. H. Delp & Co. awarded contract to CHARLES H. SCHLEGEL, Reading, for four-story brick and terra-cotta warehouse.

Ohio, **Akron**—Firestone Tire and Rubber Co. has awarded contract for five-story, 100x125 ft. addition to HUNKIN CONKEY CONSTRUCTION CO., Cleveland.

Ohio, **Akron**—Goodyear Tire and Rubber Co. awarded contract for two six-story buildings to HUNKIN CONKEY CONSTRUCTION CO., 320 Cuyahoga Bldg., Cleveland. Estimated cost, $600,000.

Ohio, **Carthage**—(Cincinnati post office)—Polleck Steel Co. awarded contract to M. MARCUS BUILDING CO., for 125x128 ft. addition. Noted Oct. 28.

Ohio, **Cleveland**—Parish & Bingham Co., West 106th and Madison Ave., awarded contract to W. I. THOMPSON & SON CO., 6110 Euclid Ave., Cleveland, for addition. Noted Oct. 14.

Ohio, **Cleveland**—Contract awarded to McCLINTIC MARSHALL CONSTRUCTION CO., Pittsburgh, Penn., for factory buildings for Van Dorn & Dutton Co. Estimated cost, $90,000. Noted Oct. 7.

Ohio, **Salem**—Harris Bros. awarded contract to M. E. FARR for 40x150 ft. plant on West Main St.

Ohio, **Salem**—Porter Rubber Co. awarded contract for plant to ELLSWORTH KILLE, Salem.

Ind., **Evansville**—Hercules Co. awarded contract for factory to CALDWELL & MARSHALL, Columbus, Ind.

Ind., **Ft. Wayne**—Ft. Wayne Electric Works of General Electric Co. awarded contract to A. T. BENTLEY & SON for factory.

Mich., **Grand Haven**—Amazon Knitting Co. has awarded contract for factory to BUCK & MULLEN, Muskegon.

Mich., **Sturgis**—Sturgis Steel Go-Cart Co. awarded contract for two-story, 61x85 ft. factory to WILLIAM A. CAVIN.

Ill., **Chicago**—Gruyton & Cumper Mfg. Co. awarded contract for one-story factory at 4449 Fillmore Ave. to SCHMIDT BROS. CONSTRUCTION CO. Estimated cost, $10,000.

Mo., **St. Louis**—Ford Motor Car Co. awarded contract to CHAPLINE CONSTRUCTION CO. for five-story assembling plant. Estimated cost, $300,000. Noted Sept. 23.

Utah, **Ogden**—Ogden, Logan & Idaho Railway Co. awarded contract to C. F. DINSMORE for car barns and repair shops, to UTAH CONSTRUCTION CO. for freight terminal. Estimated cost, $125,000. Noted under Logan, Utah, Oct. 28.

Wash., **Camas**—Contract awarded to CROWN-WILLAMELLE PAPER CO., Pittock Bldg., Portland, for three-story, 44x67 ft., reinforced-concrete mill by the Van Sant-Houghton Co., San Francisco. Estimated cost, $35,000.

Wash., **Seattle**—Contract for eight-story building for Times Publishing Co. awarded to A. W. QUIST & CO., Hoge Bldg., Seattle, at $225,985. Noted Aug. 5.

Calif., **San Pedro**—American Trona Co. awarded contract to LLEWELLYN IRON WORKS for furnishing and erecting the structural steel for a number of buildings. Noted Sept. 30 under Los Angeles, Calif.

Ont., **Chatham**—Dominion Sugar Co., Wallaceburg, will build refinery at Shatham by day labor. Estimated cost, $1,000,000.

Ont., **Port Stanley**—Port Stanley Railway Commissioner awarded contract for railway shops and car barns to HAYMAN & SONS, at $27,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Conn., Greenwich—Post Office—Bids will be received by James R. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 10, for U. S. post office at Greenwich.

N. Y., Ft. Totten—Bowling Alleys—Bids will be received at office of Quartermaster until 10 a.m., Dec. 2, for two bowling alleys at Ft. Totten. (See adv.)

N. Y., Ft. H. G. Wright—Building—Bids will be received at office of Constructing Quartermaster until 9 a.m., Nov. 26, for constructing double set officers' quarters.

Penn., Philadelphia—Dredging—Bids will be received at U. S. Engineer Office, Philadelphia, until noon, Nov. 22, for dredging in Delaware River on Bellevue, Cherry Island and Deep Water Point light house ranges. Noted Sept. 9.

Md., Indian Head—Building—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 6, for magazine building at naval proving ground.

D. C., Washington—Roller Casings, etc.—Bids will be received by F. C. Boggs, Gen. Pur. Officer, Panama Canal, until Nov. 16, for furnishing four boring plates, two roller casings, four roller cages, four roller bearing sleeves, etc.

Va., Norfolk—Dredging—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for dredging at navy yard, Norfolk.

Ohio, Cleveland—Dredging—Bids will be received at U. S. Engineer Office, Cleveland, until noon, Nov. 26, for dredging in Cleveland Harbor.

Tex., Ft. Bliss—Annex to Hospital—Bids will be received at office of Depot, Quartermaster, El Paso, until 11 a.m., Nov. 27, for rear annex to hospital at Ft. Bliss. (See adv.)

Tex., Ft. Sam Houston—Water Distributing System—Bids will be received at office of Constructing Quartermaster, Ft. Sam Houston, until 11 a.m., Nov. 18, for constructing water distributing system.

N. M., Carlsbad—Pipe Line Extension—No bids were received by U. S. Reclamation Service, Carlsbad, for Dark Canyon pipe line extension of the Carlsbad project, about two miles south of Carlsbad. Noted Oct. 7.

Wash., Meadow Creek—Clearing—Bids will be received at office of U. S. Reclamation, Meadow Creek, until 2 p.m., Dec. 1, for clearing reservoir site at Lake Keechelus.

Panama—Metal Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10.30 a.m., Nov. 10, for furnishing metal supplies.

Panama—Miscellaneous Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer of Panama Canal, Washington, D. C., until 10.30 a.m., Nov. 17, for furnishing miscellaneous supplies.

Hawaii, Pearl Harbor—Building—Bids will be received at naval station, Pearl Harbor, and at Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a.m., Nov. 27, for one reinforced-concrete power house, one reinforced-concrete operating building and one wooden double quarters at Pearl Harbor.

Bids In and Contracts Awarded

N. H., Concord—Post Office—Contract for post office at Concord awarded to JAMES MILES & SON CO., Worcester, Mass., at $42,987.

Mass., Boston—Building—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for appraisers' stores, Boston, for construction complete as follows: Norcross Bros. Co., Worcester, $635,000; George Baker Long, Worcester, $617,800; P. J. Carlin Construction Co., 1123 Broadway, New York, N. Y., $611,000. Noted Oct. 21.

Mass., Boston—Flooring—All bids received Oct. 16 for reinforced-concrete floor in pattern shop, Building 42, U. S. Navy Yard, rejected. Work will be done by yard labor. Noted Sept. 30 and Oct. 28.

Conn., Naugatuck—Post Office—Contract for U. S. post office at Naugatuck awarded to W. H. FISSELL & CO., New York, N. Y., at $50,400. Noted Oct. 21.

Penn., Monongahela—Post Office—Bids were received Oct. 27 for U. S. post office at Monongahela as follows: James Devault, Canton, Ohio, $44,200; W. H. Batson, Moundsville, W. Va., $44,700; J. S. Rogers Co., Moorestown, N. J., $46,299. Noted Sept. 23.

Md., Baltimore—Building—Contracts for constructing U. S. Immigration Station, Baltimore, awarded as follows: General construction, WILLIAM DALL CO., Cleveland, Ohio, at $269,688; wharf, NORCROSS BROS. CO., Worcester, Mass., at $6,000; elevators, STANDARD PLUNGER ELEVATOR CO., Worcester, Mass., at $10,950. Noted Sept. 9.

D. C., Washington—Building—Bids were received Oct. 25 for truck house on New Jersey Ave. between D and E St., N. W., as follows: George E. Wyne, $34,950; Skinner & Garrett, $33,929; W. E. Mooney, $34,653.

D. C., Washington—Paving—Contracts for paving awarded to CRANFORD PAVING CO., Washington, for Q St. bridge and to WASHINGTON ASPHALT BLOCK AND TILE CO., Washington, for 12th and 14th St., S. E. Noted Oct. 7 and 28.

Va., Norfolk—Barracks—Contract for brick marine barracks building at navy yard awarded to P. F. GORMLEY CO., Washington, D. C., at $193,926. Noted Aug. 26 and Sept. 30.

Ind., Newcastle—Post Office—Bids were received Oct. 27 for post office at Newcastle, (a) limestone, (b) sandstone, as follows: Charles W. Gindele Co., Chicago, Ill., (a) $53,500; J. S. Rogers Co., Moorestown, N. J., (a) $52,999, (b) $56,000; R. P. Farnsworth & Co., (a) $36,856. Noted Sept. 23.

Ind., Seymour—Post Office—Bids were received Oct. 30 for post office at Seymour (a) limestone, (b) sandstone, as follows: Callahan-Mandl Co., Chicago, Ill., (a) $47,700, (b) $50,000; George W. Stiles Construction Co., Chicago, Ill., (a) $49,600; J. Fred Beggs, Scottsburg, (a) $49,500, (b) $49,600. Noted Sept. 23.

S. D., Newell—Pipe—Contract for constructing 3,285 lin. ft. of 60-in. and 450 lin. ft. of 24-in. continuous wood stave pipe for Belle Fourche Project awarded to PACIFIC TANK AND PIPE CO., San Francisco, Calif., at $12,454. Noted Sept. 2.

Mont., Malta—Reclamation—Contracts for reclamation work at Nelson Reservoir, South Canal, Milk River Irrigation Project, awarded as follows: Building structures to JURGENS, BOOTH & CO., Glasgow, at $34,081; earthwork and structures on Bowboin Canal, first unit, schedule 1 and 2, to JAMES O'CONNOR, Saco, at $18,618; schedule 3 and 4, to JURGENS, BOOTH & CO., Glasgow.

Mo., Kirksville—Post Office—Bids were received Oct. 28 for post office at Kirksville as follows: W. S. King, Lonoke, Ark., $28,850; Charles Wertz Sons., Des Moines, Iowa, $25,213; Mayben & Freuchtel, Gadsden, Ala., $29,730. Noted Sept. 23.

Okla., Ardmore—Post Office—Contract for post office at Ardmore awarded to G. W. STILES CONSTRUCTION CO., Chicago, Ill., at $129,200.

Colo., Montrose—Canal Work—Bids were received Oct. 20 for about 11 miles of Ironstone Canal, Uncompahgre Valley Project, as follows: Mendenhall, Bird & Co., Springvale, Utah, Items 1 and 4, $12,455; 7 to 10, $17,551; 13 to 16, $9,165; 19 to 22, $7,957; 25 to 28, $6,878; C. B. Sherwood, Rocky Ford, Colo., items 17 and 18, $5,775; 23 and 24, $5,742; 29 and 30, $5,164. Noted Sept. 30.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Miss., Clarksdale—Ditches—Bids being received by A. L. Dabney, Engr., Porter Bldg., Memphis, Tenn., for 40,000 yd. ditches in Yazoo Yelta near Clarksdale.

La., Abbeville—Drainage—Citizens of Vermilion parish will vote on $200,000 bonds for drainage in Eighth Ward.

La., Estherwood—Drainage—Citizens voted $38,000 bonds for drainage.

Ill., Cairo—(Official)—Drainage—Dog-Tooth Bend Drainage and Levee District in Alexander County will be organized for drainage and levee purposes. C. A. Patier, Pres. of New York Mercantile Co., Cairo, Chn. of Comn. Oldfield & Brady Co., Cairo, Engr.

Ill., Cairo—Drainage—J. Berthe, Engr., Charleston, filed plans for drainage work in Mississippi County Drainage District No. 31. Estimated cost, $30,000.

Tex., Dallas—Drainage—Commissioners' Court of Dallas County contemplates drainage district in valley of Trinity River near Wilmer.

Wash., North Yakima—Irrigation—Bids will be received, according to press reports, for improvements to irrigation system of Union Gap Irrigation District of Yakima County. C. E. Udell, Secy.

Wash., Spokane—Drainage—Sawyer Bros., Spokane, prepared plans for drainage in Hoodoo Valley in Bonner County, about 14 miles.

Ore., Marshfield—Drainage—E. L. Robinson, Marshfield, retained by residents of Ten Mile District to prepare plans for drainage system. Estimated cost, $15,000.

Ore., Salem—Reclamation—Survey being made for reclamation district in French Prairie.

Calif., Lindsay—Irrigation—Voters of Strathmore-Lindslay Irrigation District voted in favor of forming an irrigation district. Estimated cost, $1,600,000. John Burr, Charles K. Towt and others interested. Noted Aug. 26.

Calif., Marysville—Ditches—Hallwood Irrigation Co. will build drainage ditches.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—Eastover Construction Co., at $38,534, low bidder for state canal work on Canisteo River near Hornell.

N. Y., Albany—Barge Canal Work—E. Brown Baker, Herkimer, at $7,600, and State Highway Construction Co., Inc., Mohawk, at $6,640 bid on state canal work on Mohawk River and West Canada Creek at Herkimer. Bids opened Oct. 19.

N. Y., Albany—(Official)—Barge Canal Work—Contracts awarded by W. W. Wotherspoon, Supt. of Pub. Wks., for Terminal Contracts No. 20 and 50: WALSH CONSTRUCTION CO., Davenport, Iowa, $419,659 for No. 20 and to RHODY & CLAWSON, Albion, N. Y., at $967 for No. 50. Noted Sept. 30.

N. J., Trenton—Dredging—Contract for dredging first section of Inland Waterway connecting Barnegat Bay with Manasquan River awarded to D. X. SHUBIN, at $0.998 per cu.yd. Noted Oct. 14.

Tenn., Selmer—Drainage—Contract awarded to P. H. THRASHER, Selmer, by Hurricane Creek Drainage District Commissioners for drainage work.

Minn., Blue Earth—Ditches—(Official)—Contracts awarded to CARL C. KNUDSEN, Blue Earth, at $57,200 for fill work, and to MULGREW & SONS CO., Dubuque, Iowa, at $5,498 for open ditch for Judicial Ditch No. 9, and to PAUL PAULSEN, Carroll, Iowa, at $26,956 for Judicial Ditch No. 10. Noted Oct. 7.

Wyo., Rock Springs—Canal—Contract awarded to JOHN BUNNING for overflow canal.

Calif., Modesto—(Official)—Irrigation—Contracts awarded to C. W. RICHARDS, Oakdale, at $33,539 for No. 1; BARRETT & HILP, San Francisco, at $6,209 for No. 2, and PEART BROS., La Grange, at $2,500 for No. 3 for irrigation work in Modesto Irrigation District. Noted Oct. 14.

MISCELLANEOUS

Proposed Work

N. Y., New Hampton—Relayer Rail—Bids will be received by Katharine B. Davis, Comn. of Correction, Municipal Bldg., New York, N. Y., until Nov. 9, for 80 gross tons relayer rail at New Hampton Farms, New Hampton.

N. Y., New York—(Borough of Bronx)—Subway—Form of contract has been submitted to Public Service Commission of First District by Interborough Rapid Transit Co. for Section No. 2, Route Nos. 19 and 22, part of Southern Blvd. and Westchester Ave. branch of Lexington Ave. subway.

N. Y., New York—(Borough of Brooklyn)—(Official)—Station Finish—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York, N. Y. (Borough of Manhattan), until 12:15 p.m., Nov. 5, for constructing station finish for 11 stations on Broadway-Fourth Ave. Rapid Transit R.R.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Municipal Bldg., New York, until 2 p.m., Nov. 12, for furnishing and delivering 5,000 bags of portland cement.

N. Y., New York—(Borough of Queens)—(Official)—Tracks—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York, N. Y. (Borough of Manhattan), until 12.15 p.m., Nov. 12, for installation of tracks for a portion of Steinway Tunnel Rapid Transit R.R.

Md., Cumberland—(Official)—Fire-Alarm System—We have been informed that plans to improve fire-alarm system have been abandoned for the present. Noted Oct. 14.

Ohio, Newark—Subways—Baltimore and Ohio Railroad Co. approved plans for subways under tracks. Work will start Apr. 1. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ill., Cairo—(Official)—Levee Repair. Bids will be received until noon, Nov. 10, by Rivers and Lakes Commission of Illinois for levee repairs in Cairo. Arthur W. Charles, Chn. (See adv.)

Kan., Arkansas City—Pipe Line—Lesh Pipe Line Co. being organized to build 4-in. pipe line from oil fields. Estimated cost, $25,000.

Kan., Coffeyville—Pipe Line—Citizens will build 16 miles pipe line from oil field. Estimated cost, $25,000.

Neb., Lincoln—Levee—State Irrigation Board contemplates levee system on Nemaha River at Missouri River.

Mo., Kansas City—Wall—Board of Park Commissioners contemplates wall in Slope Park. Estimated cost, $25,000.

Mo., St. Joseph—Speedway—Press reports state two-mile speedway will be constructed at Lake Contrary. John Prince, interested. Estimated cost, $2,000,000.

Mo., St. Louis—Flood Prevention—Board of Public Works contemplates elimination of River des Peres as flood menace. Estimated cost, $6,000,000. Noted Sept. 9.

Tex., Beaumont—(Official)—Machinery and Pier—Bids will be received until noon, Nov. 15, by J. G. Sutton, Secy. Wharf and Dock Commission for quay walls, trans-shipment shed and freight-handling machinery. Noted Oct. 21.

Okla., Bartlesville—Park Improvements—Citizens voted $45,000 bonds for park improvements.

Calif., Hermosa Beach—Bath House—Election will soon be held to vote on $40,000 bonds for bath house.

Calif., McKittrick—Pipe Line—General Petroleum Co. will build 6-in. pipe line from Bear Creek to Lost Hills, about 30 miles.

B. C., Victoria—Baths—Victoria and Island Development Association, Board of Trade Bldg., has had plans prepared for salt water baths on Dougals St. Estimated cost, $75,000.

Bids In and Contracts Awarded

Conn., New Haven—Coal Pocket—F. A. & D. R. Alling has awarded contract for coal pocket on Water St. to GUARANTEE CONSTRUCTION CO., 140 Cedar St. Estimated cost, $13,000.

N. J., Deal Beach—Bulkhead—Frank R. Stoneall, at $13,885, low bidder for concrete bulkhead.

Penn., Philadelphia—(Official)—Superstructures—McClintic-Marshall Co., Philadelphia, at $1,455,000 and $261,400, low bidder for superstructures for elevated railway in sections from Girard Ave. to Unity St., Frankford, and south of Girard Ave. to Callowhill St., respectively. Noted Sept. 30.

Ohio, Cincinnati—(Official)—Steel Tanks—Contract awarded to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St., Cincinnati, for steel tanks for Moore Oil Co. Noted Oct. 21.

Minn., Montevideo—Bulkhead—Contract awarded to MARSHALL CEMENT AND SIDEWALK CO., by County Commissioners for 15,305 ft. of concrete bulkhead.

Mo., Butler—Levees—Contract awarded to A. BENNEMA, Chicago, Ill., for levees along Marais des Cygnes River, about ten miles.

Calif., San Francisco—Esplanade—C. Lamburth, at $49,900, low bidder for beach esplanade. Noted Oct. 7.

Calif., San Francisco—Steamer—Contract awarded to UNION IRON WORKS, at $750,000, by Hind, Rolph & Co. for 410-ft. steamer.

Calif., San Francisco—Vessel—Contract awarded by Matson Navigation Co. to UNION IRON WORKS, at $1,000,000, for freight and passenger vessel.

Calif., San Francisco—Vessel—Contract awarded by Standard Oil Co. to UNION IRON WORKS, at $980,000, for oil tank vessel of 14,000 tons.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Boston—Plans prepared by John C. Spofford, MacNaughton & Robinson, Archs., Boston, for riding hall for Norwich University. Estimated cost, $40,000.

Mass., Boston—Union Rescue Mission will build two-story building on Dover St. near Tremont St. Estimated cost, $45,000.

Mass., Ipswich—Plans being prepared by Edward F. Stevens, 9 Park St., Boston, for hospital.

Mass., Southbridge—Revised plans being prepared by Peabody & Stearns, 53 State St., Boston, for two-story, 138x104-ft., high school. Estimated cost, $100,000. Noted Aug. 12 and 26.

Mass., Springfield—Preliminary plans being prepared by Kirkham & Parlett, Archs., for addition to Howard St. school. Noted Sept. 16.

Mass., Worcester—Plans being prepared by Fuller & Delano Co., Archs., 44 Front St., for contagious hospital building.

R. I., Providence—Press reports state that new hotel will be constructed at an estimated cost of $1,300,000. Henry F. Lippitt and Stephen O. Edwards, interested.

Conn., New London—Revised plans being prepared by Ewing & Chappell, Archs., 101 Park Ave., N. Y., for three-story dormitory building for Connecticut College for Women. Bids will soon be received.

N. Y., Binghamton—Congregation of St. John's Parish plan to build new church. Estimated cost, $75,000.

N. Y., Buffalo—Bids will be received until Dec. 1 for purchase of $400,000 bonds for building and equipping public schools.

N. Y., Lockport—Citizens of Niagara County voted bonds for tuberculosis hospital. Estimated cost, $100,000.

N. Y., Niagara Falls—Board of Education plans to build new school.

N. J., Hoboken—Bids will soon be received for two-story, 88x112-ft. gymnasium for Stevens Technical College. Estimated cost, $80,000.

N. J., Hoboken—Board of Education plans an expenditure of approximately $260,000 for addition to high school, $70,000 for addition to School No. 3 and $146,000 for new school on Lincoln School site.

N. J., Jersey City—Plans being prepared for School No. 16 at Washington and Essex St.

Penn., Philadelphia—Bids will soon be received for a one-story building for the Beneficial Savings Fund Society. Estimated cost, $250,000.

Penn., Philadelphia—Bids will soon be received for 15-story office building of brick, stone and concrete at 16th and Market St. C. E. Oelschlager, Philadelphia, Arch.

Md., Baltimore—(Correction)—We have been advised that bids will not be received Nov. 15 for construction of building for Johns Hopkins University. Carrere and Hastings, 52 Vanderbilt Ave., New York, N. Y., Arch. Noted Oct. 21.

Md., Baltimore—Bids will be received about Dec. 1 for two-story, 40x62-ft., and three-story, 50x70-ft., gymnasium for the Y. W. C. A. Estimated cost, $50,000. Noted Sept. 30.

Va., Petersburg—Plans being prepared by Charles M. Robinson & Co., Richmond, for three schools. Estimated cost, $100,000.

Miss., Columbus—Press reports state that high school will be constructed at an estimated cost of $40,000.

La., Lake Charles—Bids will soon be received for high school. Estimated cost, $125,000. Noted Oct. 28.

Ohio, Akron—Arlington Street Baptist Church will build an addition to church and parsonage. Estimated cost, $60,000.

Ohio, Canton—Plans prepared by David Hum, Jr., and submitted to A. Stollbery for station for Baltimore & Ohio R.R. Estimated cost, $200,000.

Ohio, Cincinnati—Samuel Hannaford & Sons, Archs., will prepare plans for addition to Bethesda Hospital in Avondale. Estimated cost, $50,000.

Ohio, Cleveland—Plans being prepared by William C. Jansen, Arch., 403 O'Brien Bldg., for four-story, 60x145-ft. hospital addition for St. Alexis Hospital, Sisters of St. Francis. Estimated cost, $150,000.

Ohio, Cleveland—Bids being received by Charles S. Schneider, Arch., 2248 Euclid Ave., for two-story, 103x103-ft. auditorium for Plymouth Congregational Church. Estimated cost, $50,000. Noted July 29.

Ohio, Cleveland—Bids will soon be received by A. C. Edwards, Arch., 615 Union Bldg., for two-story, 100x116-ft. theater, store and office building for Yale Theater Co. Estimated cost, $40,000.

Ohio, Cleveland—Plans being prepared by Ferguson-Flanigan Co., Arch. and Contr., Vickers Bldg., for eight-story mercantile building at St. Clair Ave. and Ontario St., for Walton Realty Co. Estimated cost, $200,000.

Ohio, Cleveland—Bids will soon be received for detention home on Franklin Ave. Estimated cost, $90,000.

Ohio, Fremont—Memorial Hospital will be constructed at Fremont. About $200,000 available for this purpose.

Ohio, Steubenville—B. P. O. E. No. 231 plans two-story and basement, 65x120-ft. club house. Petersen & Clark, Archs., Nath Bldg. Estimated cost, $40,000.

Ind., Ft. Wayne—Hope Hospital Association will not build six-story hospital until spring. Estimated cost, $100,000.

Ind., Indianapolis—Wigwam Hotel will not build hotel, lodge rooms and auditorium until spring. Estimated cost, $250,000.

Ind., Portland—Preliminary plans being prepared for three-story, 90x160-ft. court house for Jay County. McLaughlin & Hulsken, Archs., 610 Savings Bldg., Lima, Ohio. Estimated cost, $275,000.

Mich., Detroit—Plans prepared by Albert Kahn, Arch., for Merchants and Manufacturers auditorium on Cass Ave.

Ill., Bloomington—Plans being prepared for library building for Illinois Wesley University. Estimated cost, $250,000.

Ill., Chicago—Cadillac Auto Co. will build eight-story and basement 100x160-ft. sales building at Indiana Ave. and 23d St. Estimated cost, $200,000.

Ill., Chicago—Press reports state that hotel to be known as Edgewater Hotel will be constructed at Balmoral Ave. and Sheridan Rd. Estimated cost, $1,000,000.

Ill., Moline—Antlered Tribe of Moline, B. P. O. E. plans to build new club house. Estimated cost, $100,000.

Ill., Springfield—Plans being prepared by Harry J. Reiger, Arch., 42 Ridgely Bank Bldg., for addition to Dubois School. Estimated cost, $75,000.

Iowa, Alta—Plans being prepared by Smith & Keffer, Archs., Des Moines, for new school. Estimated cost, $80,000.

Iowa, Cherokee—Plans will soon be prepared for a new hospital. Estimated cost, $50,000. W. Stiles, Chn. of Comrs.

Iowa, Ft. Dodge—Members of Congregational Church plan new church. Estimated cost, $55,000.

Minn., Duluth—Bids will soon be received for municipal building. F. G. German, Arch.

Minn., Minneapolis—Union City Mission plans to build a 12-story hotel on Second St., N. Estimated cost, $120,000.

Minn., St. Paul—Plans being prepared by C. H. Johnston, Arch., for State Historical Society Building. Estimated cost, $500,000.

Minn., St. Paul—Revised plans prepared for passenger station for Union Depot Co. W. C. Armstrong, Engr.

Minn., St. Paul—Part of uncompleted building at Sixth and St. Peter St. for Mannheimer Bros. will be remodeled into a hotel. Estimated cost, $1,000,000.

Kan., Emporia—Bids will soon be received for Preston B. Memorial Building at State Normal School. Estimated cost, $175,000.

STORM WATER DRAINAGE SYSTEM, ATLANTIC CITY, N. J.

Bids were received Oct. 7 for the extension of the storm-water drainage system from (A) James Ferry & Sons, Inc., Baltimore, Md.; (B) M. B. Markland, Atlantic City; (C) Culp Co., Inc., Paterson; (D) Atlantic Construction and Supply Co., Atlantic City; (E) Empire Construction Co., New York, N. Y.; (F) Dock Contractor Co., Hoboken; (G) Edward L. Bader, Atlantic City; (H) Whiting-Turner Construction Co., Baltimore, Md. The item bids were as follows:

	A	B	C	D	E	F	G	H
17 lin.ft. 4ft. x 2 ft., 6 in. concrete drain	$14.60	$20.00	$11.31	$14.92	$10.70	$11.49	$16.00	$14.76
358 lin.ft. 4 ft. x 2 ft. concrete drain	12.70	13.69	11.31	13.55	10.70	11.01	14.00	13.41
370 lin.ft. 3 ft., 6 in. x 2 ft. concrete drain	10.90	10.00	11.02	12.47	10.10	10.37	13.00	12.65
575 lin.ft. 3 ft. x 2 ft. concrete drain	10.80	12.65	10.94	12.63	10.07	10.02	12.80	12.07
263 lin.ft. 48-in. brick and concrete drain	17.60	16.50	13.92	15.50	14.52	14.00	16.70	17.38
520 lin.ft. 39-in. brick and concrete drain	13.10	14.05	11.83	14.70	11.60	12.50	17.20	15.10
105 lin.ft. 36-in. brick and concrete drain	16.20	9.45	10.53	12.23	10.27	11.57	14.80	14.94
810 lin.ft. 33-in. brick and concrete drain	7.80	8.00	7.18	9.10	7.15	8.88	10.90	10.78
2,148 lin.ft. 30-in. brick and concrete drain	6.90	7.90	7.00	8.70	6.92	8.46	10.40	9.61
2,282 lin.ft. 27-in. brick and concrete drain	5.50	7.00	6.88	7.74	6.48	7.70	9.60	8.74
2,154 lin.ft. 24-in. terra cotta drain	4.80	6.75	7.25	7.80	5.75	7.74	9.00	8.89
1,726 lin.ft. 22-in. terra cotta drain	4.40	6.35	6.55	7.00	5.40	7.00	8.15	8.35
802 lin.ft. 20-in. terra cotta drain	4.10	6.15	6.11	6.45	5.21	6.66	8.15	7.93
544 lin.ft. 18-in. terra cotta drain	3.30	6.70	5.86	5.70	4.93	6.30	7.00	7.40
1,315 lin.ft. 15-in. terra cotta drain	2.70	5.55	5.00	4.90	4.34	6.01	6.40	6.75
267 lin.ft. 12-in. terra cotta drain	2.30	4.50	4.00	3.55	3.67	5.22	5.50	5.60
2,657 lin.ft. 12-in. terra cotta inlet pipe	1.90	1.80	2.55	2.35	3.62	4.60	2.90	4.90
3,756 lin.ft. 10-in. terra cotta inlet pipe	1.80	1.60	2.50	2.10	3.44	4.55	2.65	4.50
394 lin.ft. vertical manholes	6.00	6.00	5.50	6.50	12.50	12.98	4.00	6.50
62 lin.ft. manhole frames and covers	10.00	9.00	9.25	9.00	21.60	11.01	9.50	10.00
209 storm water inlets	25.00	20.00	25.00	30.00	40.00	32.35	26.00	45.00
209 hood traps	4.00	3.50	3.60	3.60	7.00	2.32	4.00	4.00
104 lin.ft. catch basins	45.00	80.00	80.00	68.00	105.00	92.80	75.00	137.00
12,700 lin.ft. underdrain	.30	.20	.36	.21	.25	.53	.30	.36
21,700 lin.ft. piles	.30	.30	.30	.30	.50	.29	.30	.38
2 concrete bulkheads (lump sum)	1,000.00	1,000.00	1,000.00	800.00	1,000.00	850.00	500.00	680.00
Extended totals	$125,921	$147,856	$150,038	$159,598	$159,754	$181,043	$183,837	$205,185

Kan., Winfield—Capitalists of Winfield contemplate hotel at Main St. and Ninth Ave. Estimated cost, $200,000.

Mont., Hardin—T. J. Daniel, A. L. Nitchell and Walter O. Lee are interested in the construction of a two-story, 100x150-ft. hotel. Estimated cost, $50,000.

Mo., Maryville—(Official)—Wilder & Wight, Kansas City, Mo., preparing plans for bank for Farmers Trust Co.

Mo., Springfield—Presbyterian Church plans tabernacle at Cherry St. and Blvd. Estimated cost between $50,000 and $75,000.

Ark., Ft. Smith—St. Edwards Infirmary will build hospital annex at North 15th St. Estimated cost, $100,000.

Tex., El Paso—Plans being prepared for bank and office building for Rio Grando Valley Bank and Trust Co. Estimated cost, $150,000.

Tex., El Paso—F. P. Miller interested in construction of cathedral for Scottish Rite Masons. Estimated cost, $200,000.

Tex., Houston—Bids will be received about Nov. 15 for the Taylor School. Estimated cost, $90,000.

Idaho, Bonners Ferry—G. W. Sperry plans to build a hotel on Main St. Estimated cost, $60,000.

Ariz., Kingman—Plans being prepared by Norman F. Marsh, Arch., Broadway Central Bldg., Los Angeles, Calif., for a two-story high school for Kingman Union High School district. Estimated cost, $50,000.

Wash., Bellingham—Bids will soon be received for constructing the Central High School. Estimated cost, $75,000.

Wash., Seattle—A four-story, 60x120-ft. reinforced-concrete office building will be constructed on the site of the Alaska Theater Bldg. Estimated cost, $75,000.

Wash., Tacoma—Bids will soon be received by Luther Twitchell, Arch., Savage-Scofield Bldg., for a three-story brick and concrete addition to the Bankers Trust Bldg., Pacific Ave. Estimated cost, $50,000. Noted Sept. 9.

Calif., El Centro—S. B. Zimmer, Arch., El Centro, will prepare plans for high school for Central Union high school district. Estimated cost, $135,000.

Calif., Fresno—Plans prepared by Kraft & Son, Arch., San Francisco, for hospital at Fresno and S St. for Burnett Sanitorium Association. Estimated cost, $75,000.

Calif., Los Angeles—Plans being prepared by J. C. Austin, Arch., Baker-Detwiller Bldg., for church for First Methodist Episcopal Church. Estimated cost, $250,000.

Calif., Sacramento—Plans being prepared by R. R. Herold, Arch., for first three units of proposed new county hospital. Estimated cost, $400,000.

Calif., San Bernardino—Plans being prepared by Elmore R. Jeffery and Frank R. Schaeffer, Archs., Wesley Roberts Bldg., Los Angeles, for church for First Congregational Church of San Bernardino. Estimated cost, $50,000.

Calif., San Francisco—Plans prepared by Willis Polk, Arch., for 12-story building at Pine and Montgomery St. for McCreely Estate. Estimated cost, $350,000.

Calif., San Francisco—Plans being prepared by Willis Polk & Co. for building for Western Union Telegraph Co. Estimated cost, $350,000.

Ont., Orillia—Election will be held to vote on $50,000 bonds for City Hall building.

Ont., Toronto—Plans prepared by Clinton & Russell, Arch., for seven-story office building at Church and Court St. for Imperial Oil Co. Noted Oct. 7.

Alaska, Valdez—S. Blum & Co. plans to build a three-story department store building. Estimated cost, $45,000.

Bids In and Contracts Awarded

Mass., Boston—(Roslindale)—All bids rejected for church of Our Saviour. Estimated cost, $50,000.

Mass., Boston—(Roxbury)—All bids received for High School of Practical Arts rejected. Noted Oct. 28.

Mass., Chicopee—Contract for school for St. Stanislaus Polish Church Society awarded to CAGNON & ANGIER, Springfield. Noted Sept. 23.

Mass., Fall River—Darling-Slade Construction Co., Newport, R. I., at $83,000 low bidder for remodeling City Home.

Conn., New Haven—Contract awarded to GEORGE A. FULLER CO., for three-story, 50x144-ft., administration building on Howard Ave., three-story, 54x144-ft., pathological laboratory for General Hospital Society of Connecticut. Noted Sept. 16.

BARGE CANAL WORK, ALBANY, N. Y.

Contract No. 20

Bids were received Oct. 26 by W. W. Wotherspoon, State Supt. of Pub. Wks., for Barge Canal Work, Contract No. 20 from (A) James Stewart & Co., Inc., New York; (B) Walsh Construction Co., Inc., Davenport, Iowa; (C) Sherman Stalter Co., Lyons, N. Y.; (D) T. W. Kinser, St. Louis, Mo.; (E) Larkin & Sangster, Seneca Falls, N. Y.; (F) New York State Dredging Corporation, Rochester; (G) Henry P. Burgard, Buffalo; (H) Eastover Construction Co., Utica; (I) John Young, Syracuse; (J) Great Lakes Dredge and Dock Co., Buffalo, (K) Cleveland Sons Co., Brockport; (L) Central Dredging Co., Cleveland, Ohio; (M) Holler & Shepard, Rochester; (N) State Highway Construction Co., Beacon; (O) T. A. Gillespie, New York; (P) American Pipe and Construction Co., Philadelphia, Penn.; (Q) Grant Smith & Co., Rome; (R) Edwin String; (S) H. S. Kerbaugh, Inc., Buffalo. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
Clearing (lump sum)	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Removing buildings (lump sum)	8,400.00	1,500.00	3,600.00	10,000.00	12,000.00	8,000.00	10,000.00	10,000.00	10,000.00	10,000.00
1,030,000 cu.yd. excavation	.19	.186	.21	.24	.32	.25	.235	.21	.27	.235
20 M ft. b.m. sheeting and bracing	40.00	45.00	50.00	50.00	50.00	35.00	50.00	30.00	50.00	50.00
10,400 cu.yd. forming embankment	.15	.20	.15	.20	.20	.20	.20	.10	.20	.20
85,000 lin.ft. foundation piles	.34	.26	.25	.35	.32	.40	.35	.40	.27	.33
110 fender piles	20.00	15.00	15.00	20.00	20.00	24.00	20.00	20.00	20.00	20.00
790 M ft. b.m. sawed lumber	46.00	36.00	38.00	50.00	40.00	35.00	40.00	35.00	45.00	45.00
33 M ft. b.m. sawed lumber in bridge floor	65.00	55.00	55.00	65.00	65.00	50.00	75.00	65.00	60.00	65.00
8,700 cu.yd. stone filling in cribs	1.70	1.90	1.85	2.00	1.75	1.10	2.00	1.25	1.75	1.50
9,500 cu.yd. second class concrete	7.50	6.00	7.00	7.50	6.75	6.50	7.50	7.50	5.50	7.40
400,000 lb. structural steel	.04	.04	.04	.04	.04	.04	.045	.04	.04	.041
260 lin.ft. lattice railing	2.25	1.75	2.00	2.00	2.00	2.00	1.25	2.20	2.00	5.00
18,000 lb. iron castings, plain	.04	.04	.033	.04	.04	.04	.035	.04	.04	.04
3,300 lin.ft. malleable cast iron nosing	1.25	1.00	1.15	1.25	1.25	1.25	1.20	1.25	1.50	1.25
46,000 lb. metal reinforcement	.03	.026	.036	.035	.035	.035	1.15	.035	.03	.03
550 fender fastenings	1.20	1.00	1.20	1.20	1.20	1.20	3.00	1.20	1.20	1.20
38,000 sq.ft. steel sheet piling	1.05	.90	.75	1.15	1.15	1.10	3.50	1.35	.90	1.00
7,000 cu.yd. wash wall	3.00	2.50	2.20	3.00	3.00	2.00	1.00	1.50	3.00	3.00
2,500 cu.yd. third class rip-rap	3.00	2.50	3.10	3.00	3.00	2.50	1.50	3.00	3.00	3.00
3,300 cu.yd. taking up and relaying rip-rap	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.20	1.00	1.00
450 sq.yd. paved gutters	1.50	1.20	1.50	1.50	1.50	1.50	.15	1.50	1.50	1.50
4,300 cu.yd. gravel surfacing	1.50	1.30	1.35	1.50	1.35	1.75	.30	1.50	1.50	1.30
7,400 lin.ft. drains	.15	.12	.15	.15	.15	.15	...	.15	.15	.15
1,100 lin.ft. wooden fence	.30	.25	.30	.30	.30	.30	...	.30	.25	.30
Maintaining highway traffic (lump sum)	750.00	750.00	1,000.00	1,000.00	1,000.00	900.00	.....	1,000.00	1,000.00	999.00
Cofferdams, pumping, bailing and draining	10,000.00	4,500.00	9,000.00	11,000.00	12,500.00	6,000.00	.....	10,000.00	10,000.00	10,000.00
Extended totals (lump sum)	$481,705	$419,659	$455,935	$542,275	$597,325	$511,115	$532,805	$492,622	$539,800	$519,375

	K	L	M	N	O	P	Q	R	S
Clearing (lump sum)	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$60.00
Removing buildings (lump sum)	10,000.00	10,000.90	5,000.00	10,000.00	9,500.00	10,000.00	10,000.00	1,100.00	12,000.00
1,030,000 cu.yd. excavation	.27	.24	.32	.26	.30	.28	.32	.26	.23
20 M ft. b.m. sheeting and bracing	50.00	40.00	42.00	55.00	51.00	60.00	60.00	60.00	60.00
10,400 cu.yd. forming embankment	.18	.20	20	.20	.18	.20	.25	.15	.24
85,000 lin.ft. foundation piles	.30	.25	.28	.30	.35	.38	.35	.40	.40
110 fender piles	20.00	15.00	20.00	20.00	16.50	26.00	25.00	14.00	20.00
790 M ft. b.m. sawed lumber	45.00	38.00	45.00	45.00	45.55	40.00	55.00	40.00	35.00
33 M ft. b.m. sawed lumber in bridge floor	65.00	50.00	62.50	65.00	57.60	65.00	70.00	70.00	55.00
8,700 cu.yd. stone filling in cribs	1.10	2.00	2.40	2.00	2.05	1.50	3.00	1.50	1.00
9,500 cu.yd. second class concrete	7.25	6.50	6.90	6.50	7.25	7.90	8.50	8.00	7.50
400,000 lb. structural steel	.04	.04	.04	.04	.04	.04	.05	.04$	.04
260 lin.ft. lattice railing	2.00	2.00	2.50	2.00	2.25	2.00	2.00	2.10	2.40
18,000 lb. iron castings, plain	.04	.04	.04	.04	.04	.04	.04	.045	.03
3,300 lin.ft. malleable cast iron nosing	1.25	1.50	1.10	1.25	1.25	1.50	1.50	1.25	1.10
46,000 lb. metal reinforcement	.03	.03	.031	.03	.03	.03	.04	.04	03
550 fender fastenings	1.20	1.00	1.20	1.00	1.20	1.20	1.20	1.25	1.10
38,000 sq.ft. steel sheet piling	1.15	1.00	.95	.95	1.10	1.25	1.00	1.00	1.25
7,000 cu.yd. wash wall	2.75	3.00	2.90	2.00	3.00	1.50	3.00	2.50	2.00
2,500 cu.yd. third class rip-rap	2.50	3.00	3.00	3.00	3.50	3.00	3.00	3.00	2.00
3,300 cu.yd. taking up and relaying tip-rap	1.00	1.00	1.00	1.00	1.25	1.00	2.50	1.20	1.00
450 sq.yd. paved gutters	1.50	1.50	1.25	1.50	1.50	1.50	1.50	1.50	1.50
4,300 cu.yd. gravel surfacing	1.50	1.50	1.50	1.25	1.75	1.50	1.50	1.25	1.25
7,400 lin.ft. drains	.15	.18	.15	.15	.15	.15	.25	.15	.16
1,100 lin.ft. wooden fence	.30	.30	.27	.25	.33	.30	.35	.35	.35
Maintaining highway traffic (lump sum)	1,000.00	1,000.00	1,000.00	500.00	600.00	1,000.00	1,000.00	500.00	12,00.00
Cofferdams, pumping, bailing and draining	11,000.00	11,000.00	10,000.00	7,000.00	11,000.00	11,000.00	11,000.00	12,000.00	12,000.00
Extended totals (lump sum)	$588,712	$516,512	$597,398	$530,095	$598,020	$571,900	$653,360	$554,223	$511,989

Conn., Stratford—Stratford Trust Co. awarded contract to S. W. HUBBELL BUILDING CO., Bridgeport, for bank building.

N. Y., Syracuse—Contract awarded to ONONDAGO BUILDING AND CONSTRUCTION CO., at $201,458, for Delaware School at Delaware and Geddes St. Noted Oct. 21.

N. J., Trenton—Contract for a stone and concrete building for State Hospital of New Jersey awarded to GEORGE B. WILLS & CO., New York, N. Y., at $42,887.

Va., Lexington—Contract for Jackson Memorial Hall at Virginia Military Institute awarded to J. L. CROUSE, Greensboro, N. C., at $89,662.

Va., Lynchburg—Contract awarded to J. P. PETTYJOHN & CO., Lynchburg, for three-story, 70x106-ft., school for Virginia Episcopal School. Estimated cost, $57,000.

Va., Roanoke—Contract for auditorium, armory and convention hall awarded to C. H. TURNER, at $41,275, for Roanoke Auditorium Co. Noted Oct. 21.

Ohio, Cincinnati—(Madisonville)—Contract for group of buildings for Children's Home to be constructed at Madisonville awarded to M. MARCUS BUILDING CO. Estimated cost, $100,000. Elzner & Anderson, Arch.

Ohio, Cincinnati—Contract awarded to FERRO CONCRETE CONSTRUCTION CO., at $455,469, for five buildings for the Board of Education.

Ohio, East Cleveland—Contract for additions to Chambers and Rozelle schools awarded to CLEVELAND FIREPROOF CONSTRUCTION CO., 650 Rockefeller Bldg., Cleveland. Estimated cost, $100,000.

Ohio, Oxford—(Official)—Contract awarded to SIMS & BENZING, Hamilton, at $40,093, for pavilion at Miami University.

Ind., Evansville—Contract for Hotel McCurdy awarded to CALDWELL-MARSHALL CO., Columbus, at about $450,000. Noted Sept. 9.

Mich., Wahjamega—(Caro post office)—Farm Colony for Epileptics awarded contract to FRANK L. SHOEMAKER CO., Kalamazoo, for two buildings. Estimated cost, $90,000.

Ill., Peoria—Contract for addition to store building of Block & Kuhl at Adams and Fulton St. awarded to V. JOBST & SONS, at about $150,000.

Ill., Rock Island—Contract for three-story, 82x130-ft., school at Ninth and 12th Ave. awarded to BUILDING CONSTRUCTION CO., Chicago, at $61,970. Noted Oct. 7.

Iowa, Jefferson—Contract for Green County Courthouse awarded to ROWLES CO., Onawa, at $127,327.

Minn., Crosby—Board of Education awarded contract for two-story brick high school to JACOBSON BROS., Duluth. Estimated cost, $100,000. Noted Aug. 5 and 19.

Minn., Minneapolis—Contract for three-story brick and terra-cotta building for N. Geanakoplos awarded to R. J. CHENEY & CO. Estimated cost, $50,000.

Mont., Billings—Contract for addition to Northern Hotel awarded to GAGNON & CO., Billings. Estimated cost, $65,000.

Mo., St. Louis—Contract for a laboratory for the Luyties Pharmacy Co. at 4,200 Laclede Ave. awarded to GAMBLE CONSTRUCTION CO. Estimated cost, $50,000.

Ark., Newport—Contract for building for Arkansas Bank & Trust Co. awarded to BURKE CONSTRUCTION CO., Hattiesburg, Miss., at about $41,000.

Tex., Dallas—Contract for addition to College of Industrial Arts awarded to GILSONITE CONSTRUCTION CO., St. Louis, at $87,000.

Calif., Ventura—Bids were received Oct. 18 for two cottages and detention building for California State School for Girls: King Co., $43,333; F. O. Engstrum, $45,987; L. Bergren & Son, $48,472. Noted Oct. 7 and 28.

Que., Quebec—(Limoilou)—School Commissioner awarded contract to EDWARD BELANGER for school. Estimated cost, $50,000.

CATALOG NOTICES

Independent Pneumatic Tool Co., Thor Bldg., Chicago, Ill. Circular. Thor pneumatic drills, hammers, riveters, etc. Illustrated.

Kingsford Foundry & Machine Works, Oswego, N. Y. Catalog No. 18. Turbine pumps, type L. Illustrated, 22 pp., 6x9 in.

The Berger Mfg. Co., Canton, Ohio. Catalog. Concrete reinforcing and furring plates, expanded metal lath, pressed steel cores. Illustrated, 82 pp., 6x9 in.

ELEVATED RAILWAY WORK, PHILADELPHIA, PENN.

Bids were received by the Department of City Transit, Oct. 19, for constructing the steel superstructure and appurtenant work for the Frankford Elevated Railway from (A) McCLINTIC-MARSHALL CONSTRUCTION CO., Morris Bldg., Philadelphia (awarded contract); (B) E. E. Smith Contracting Co., New York, N. Y.; (C) Conners Bros. Co., Inc., New York, N. Y. The item bids were as follows:

	A	B	C
Contract No. 515 (grouping contracts 512 and 513—for the whole work as shown on the plans (lump sum)		$1,109,130	$1,104,000
Contract No. 516 (grouping contracts 512 and 514—for the whole work as shown on the plans (lump sum)		1,095,564	1,089,000
Contract No. 517 (grouping contracts 513 and 514—for the whole work as shown on the plans (lump sum)		1,235,728	1,229,000
Contract No. 518 (grouping contracts 512, 513 and 514—for the whole work as shown on the plans (lump sum)	$1,455,000	1,720,211	1,684,000
10,000 lb. riveted steel girders	0 0315	0 0425	0 04
10,000 lb. rolled steel beams	0 029	0 0425	0 04
10,000 lb. steel columns	0 04	0 0425	0 04
10,000 lb. steel rods	0 04	0 03	0 035
10,000 lb. iron castings	0 025	0 04	0 05
100 cu.yd. excavation	1 25	2 00	2 00
100 cu.yd. concrete	10 00	8 00	7 50
100 sq.yd. asphalt paving	4 50	2 50	3 00
100 sq.yd. new granite block paving	4 50	4 00	3 50
100 sq.yd. new vitrified block paving	4 50	3 00	3 00
100 sq.yd. new wood block paving	4 50	4 00	3 50
100 sq.yd. granite, wood or vitrified block repaving, concrete base	2 25	4 00	2 25
100 sq.yd. granite, wood or vitrified block repaving, gravel base	2 00	3 00	1 50
100 sq.yd. granolithic sidewalk paving	1 50	2 00	1 50
100 sq.yd. flagstone sidewalk repaving	75	3 00	1 00
100 sq.yd. brick sidewalk paving	1 00	2 00	3 00
100 lin.ft. 6-in. straight granite curb	1 00	1 50	3 25
100 lin.ft. 8-in. straight granite curb	1 20	2 50	3 50
100 lin.ft. 6-in. or 8-in. curved granite curb	2 25	3 00	4 00
100 lin.ft. granolithic curb	85	1 00	80
100 lin.ft. resetting stone curb	50	60	30
1 M ft. b.m. yellow pine lumber	55 00	40 00	55 00
Extended total, contract No. 515		$1,125,380	$1,118,950
Extended total, contract No. 516		1,111,814	1,103,950
Extended total, contract No. 516	$1,476,555	1,744,586	1,706,485

The New York Municipal Railway Corporation has applied to the Public Service Commission for the First District for permission to enter into a contract with the George W. McNulty Co., for the construction of the Coney Island terminal of its elevated railroads. The company, in its application, states that the McNulty Co., in its opinion, is well equipped to do the work, and that the prices which it agrees to perform the work for are reasonable. The McNulty Co. is the same concern which constructed the Sea Beach line for the New York Municipal Railway Corporation. That corporation says the Sea Beach work was very satisfactory, and it believes that by letting the Coney Island terminal contract to the same company it will get as satisfactory work.

The Public Service Commission for the First District and the New York Dock Co. have perfected an agreement which, it is estimated, will save the City of New York at least $500,000 in the cost of construction of the new subways and will result in the immediate expenditure of at least $1,250,000 by the company for the improvement of the Brooklyn waterfront between Fulton St. and Atlantic Ave. The improvement contemplates the replacement of the existing piers, which are about 400 ft. long, by five new piers, which will be from 640 to 750 ft. in length, more than doubling the capacity of the piers and making possible the accommodation of much larger vessels than can be taken care of with the present pier space. Incidentally, three of the new piers will be erected over the existing subway tunnel in Joralemon St., and the two new subway tunnels in Montague and Clark St., so that absolute protection will be afforded for these tubes. The agreement provides for the purchase by the City of easement rights for the new subway at the foot of Clark St., Brooklyn, for $275,000, and that the Dock Co. will agree to pay at least $75,000 for property owned by the city at the foot of Montague St. and at least $25,000 for property owned by the city at the foot of Joralemon St., Brooklyn. In other words the City will acquire the Clark St. easement for $175,000 net, and the Dock Co. will be able to make the improvements above mentioned.

BRIDGE, LYONS FALLS, N. Y.

Bids were received Oct. 19 by W. W. Wotherspoon, State Supt. of Pub. Wks., for constructing a bridge over the Moose and Black Rivers at Lyons Falls from (A) Lupfer & Remick, Buffalo; (B) Walter S. Rae, Pittsburgh, Penn.; (C) Jackson L. Richmond, Grant; (D) Lathrop, Shea & Henwood Co., Buffalo; (E) Chesley, Earl & Heimbach, Inc., Buffalo; (F) John Young, Syracuse; (G) Eastover Construction Co., Inc., Utica; (H) Scott Bros., Rome. The item bids were as follows:

	A	B	C	D	E	F	G	H
5,200 cu.yd. excavation	$0.95	$0.60	$0.40	$0.70	$0.70	$0.75	$0.90	$0.70
300 cu.yd. lining	.65	1.00	1.00	1.25	1.50	1.50	1.50	1.25
4,100 lin.ft. foundation piles	.35	.32½	.40	.30	.30	.60	.45	.35
1,500 cu.yd. second-class concrete	8.00	6.00	7.50	6.50	6.75	6.75	7.50	6.50
736,000 lb. structural steel	.0428	.043	.044	.042	.0425	.05	.0417	.044
500 lb. metal reinforcement	.04	.04	.04	.04	.04	.04	.04	.04
475 lin.ft. lattice railing	2.00	1.90	2.00	1.75	2.00	2.00	2.25	2.00
40 lin.ft. wrought iron pipe railing	1.25	1.25	1.25	1.25	1.25	1.25	1.50	1.25
1,050 lin.ft. wooden fence	.25	.25	.25	.25	.25	.25	.26	.25
40 cu.yd. third-class rip-rap	1.50	2.00	2.50	3.00	2.50	2.50	2.00	2.50
19.5 M ft. b.m. sawed lumber untreated	40.00	48.00	55.00	50.00	60.00	60.00	65.00	55.00
40.5 M ft. b.m. sawed lumber treated	45.00	69.00	65.00	70.00	80.00	80.00	90.00	75.00
65 sq.yd. cobblestone gutter	1.00	1.00	1.50	1.80	1.50	1.50	1.50	1.50
Cofferdams, pumping, bailing and draining (lump sum)	3,600.00	3,200.00	3,000.00	2,800.00	3,000.00	3,000.00	3,500.00	3,600.00
Maintaining highway traffic (lump sum)	1,200.00	1,200.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,200.00
Totals	$58,880.80	$54,911.00	$56,839.00	$54,917.75	$56,615.00	$63,625.00	$59,927.95	$57,974.00

The Marked Decline in Idle Cars—The decline in idle cars on railroads of the United States and Canada during September, as reported by the American Railway Association, was greater than in any previous month for several years. Total number of cars idle Oct. 1 was 78,299, a decrease of 106,710 cars, or 57%, from Sept. 1. There has been a continuous monthly lessening of idle cars since last May, and aggregate decrease of the last four months was 222,254 cars. The September declines were apportioned among the three various classes of freight cars as follows: Box, 62,764; flat, 3,724; and coal, 25,275. Flat and coal cars decreased every month since May and box cars every month in that period except July, when there was a slight increase. As compared with the same period in previous years, the total idle cars Oct. 1 this year was 52,728 less than in 1914 and 67,825 more than 1913. As there was a net shortage of 31,579 cars on Oct. 1, 1912, the figures for this year represent an increase of 109,878. There are less box cars idle now than a year ago, but more than in either 1913 or 1912, when net shortages were reported. Idle flat and coal cars this year are fewer than in 1914, but more than in the two preceding years. At this time three years ago there was a net shortage of all classes of cars. The following table compares the idle cars by classes on Oct. 1, over a period of four years:

Oct. 1	1915	1914	1913	1912
Box cars	36,254	55,131	*1,189	*28,048
Flat cars	6,368	8,733	1,207	*2,997
Coal cars	13,312	37,224	*2,440	*8,406
Total cars	78,299	131,027	10,374	*31,579

*Net shortage.

The manner in which increased freight movement all over the country is lowering the number of idle cars is reflected in the recent statements of the Pennsylvania R.R. system, which show that for nearly two months past there have been no good order cars out of service on any of the Pennsylvania lines.

The United States Steel Corporation issued the following statement of earnings, covering the quarter ending Sept. 30, 1915. The following shows comparison with the same quarter of 1914:

	1915	1914
July earnings	$12,048,218	$7,475,993
August earnings	12,869,099	7,584,926
September earnings	13,793,327	7,215,083
Total earnings after deducting all expenses incident to operations, including those for ordinary repairs and maintenance of plants and interest on bonds of subsidiary companies	$38,710,644	$22,276,002
Less charges and allowances for depreciation, viz.:		
Sinking funds on bonds of subsidiary companies and depreciation and extraordinary replacement funds	7,028,034	6,017,922
Sinking funds on U. S. Steel Corporation bonds	1,636,819	1,576,058
Net income	$30,045,791	$14,682,022
Deduct interest for the quarter on U. S. Steel Corporation bonds outstanding and premium payable on bonds redeemable under sinking funds	5,703,631	5,746,111
Balance	$24,342,160	$8,935,911
Dividends for the quarter on stocks of the U. S. Steel Corporation, viz:		
Preferred	6,304,919	6,304,919
Common		2,541,513
Surplus for the quarter	$18,037,241	$89,479

Municipal Bond Sales Larger—Municipal bond issues throughout the United States during the month of October, including state and county flotations, reached a total of $27,816,300, against $21,215,600 the previous month and $13,141,429 in October, 1914. This brings the total for the ten months of 1915 up to $388,858,100, as compared with $451,023,510 for the corresponding period last year. The feature of the month's transactions was the sale of $3,000,000 bonds of the Imperial Irrigation District of California, which were taken by the Southern Pacific Co. The State of California also sold an issue of $1,800,000 University of California bonds. Another important issue, amounting to $2,668,000, was that disposed of by the city of Pittsburg.

The following table shows the output of permanent municipal bond issues for the month of October and the ten months in previous years:

	Month of October	For the Ten Months
1914	$13,141,429	$415,023,510
1913	39,698,091	327,902,805
1912	27,958,999	345,871,920
1911	26,588,621	341,992,191
1910	27,037,207	258,958,249
1909	16,377,836	288,767,287
1908	14,097,829	257,310,946
1907	9,793,358	209,516,322
1906	14,819,277	167,971,622
1905	7,915,496	148,937,223
1904	10,299,995	208,221,052
1903	12,196,885	123,942,878
1902	5,488,424	123,167,279
1901	9,779,197	109,103,198
1900	16,421,185	113,615,626
1899	9,314,854	104,341,291
1898	4,906,607	88,057,166
1897	6,872,293	113,259,756
1896	4,688,463	60,917,879
1895	6,697,012	98,950,928
1894	8,685,435	99,140,271
1893	11,839,373	52,813,939
1892	11,766,420	75,350,254

Opens Lumber Export Market

Commercial Agent Franklin H. Smith of the Bureau of Foreign and Domestic Commerce has returned to the United States and is ready to confer with lumber dealers and exporters, according to an announcement just made by the Department of Commerce. Mr. Smith has been traveling for the Bureau during the last fourteen months in the Far East, Australia and New Zealand, making an extensive investigation of the markets for American lumber in those regions. He is now in Seattle, Wash., and is expecting to make a trip to the principal centers of the lumber trade on the west coast to confer personally with lumber producers and exporters and give them the benefit of the information he has collected. The Department said:

"Mr. Smith's investigation covered all phases of the lumber markets in the Far East and Australia, including the sources of the present supply, the satisfaction of consumers with their present material, the prices which American producers would have to meet, the extent to which wood using industries have developed, and the methods by which the present trade is carried on. His work led to certain definite conclusions, and it is these points which he will emphasize in his talks with American producers.

"As the lumber industry in the United States is at present much depressed, the prospect of an increased export trade is particularly alluring. The Bureau of Foreign and Domestic Commerce, through the work of Mr. Smith, is endeavoring to supply precisely the information and advice needed to greatly increase this trade.

"Mr. Smith will be in Seattle, Wash., until November 1, and will then go to Portland, Ore., San Francisco, Spokane and Chicago, before reporting at Washington. He will make his headquarters in Seattle, San Francisco and Chicago, at the branch offices of the Bureau of Foreign and Domestic Commerce, and at the other places mentioned he can be reached through the local chambers of commerce."

Lumber Industry—The lumber industry in the state of Washington has been depressed for the last three years and the last year and a half has been particularly unprofitable. At times it has been so low as operating only fifty per cent. of its normal capacity. Within the last three months there has been a slight improvement, due to the demand from the line yards in the eastern sections of the country, and likewise to some offshore business. The former demand has increased the output, but the price paid for the product is barely profitable. It is safe to say that in many cases the product is being disposed of at a loss, for the purpose of conversion by which to meet overhead costs and to pay interest on timber bonds. There is no question but what the lumber industry would materially improve if there were sufficient bottoms to transport it to foreign markets. There is, however, a very marked shortage of vessels. What offshore business we now have is profitable and as soon as carriers can be supplied, a number of the large export mills will resume operation.

Bethlehem-Pennsylvania Deal—A week ago it seemed certain that the controlling interest in the Pennsylvania Steel Co. would pass to the Bethlehem Steel Co., as then stated. There seemed to be no doubt that Mr. Schwab's bid would be accepted by both the Pennsylvania Co. and the Reading Iron Co., whose holdings of the Pennsylvania Steel stocks constitute a very large majority. Indeed, it was stated on the best authority that Schwab's bid was satisfactory to the Pennsylvania people, and that it only remained for the Reading Iron board to approve of the transaction. An unexpected obstacle has arisen, however. As is well known, William H. Donner, president of the Cambria Steel Co., has for some time held an option on the Pennsylvania Steel stock at a fixed price, with the further provision that he should have the first call on the stock in case a higher price should be offered by anyone. It now seems that Mr. Donner has given notice that he will meet the Schwab bid, and the transfer is uncertain pending further negotiations. It is said that H. C. Frick is backing the Donner party.

Railroad Gross Earnings for the third week of October of the 32 leading roads in the United States and Canada show an increase of 17.49% over the corresponding period of last year. The statement is as follows:

	1915	Increase
Denver & Rio Grande	$584,200	$45,600
Detroit & Mackinac	23,499	2,369
Duluth, S. Sh. & Atlantic	66,973	12,699
Alabama Great Southern	116,172	31,748
Ann Arbor	55,951	5,608
Buffalo, Roch. & Pittsburgh	253,231	45,961
Canadian Northern	791,800	292,800
Canadian Pacific	3,068,000	1,028,000
Chesapeake & Ohio	856,961	131,301
Chicago, Great Western	328,005	*12,341
Chicago, Indianapolis & Louisville	155,227	27,737
Cin., New Orleans & Texas Pac.	217,159	40,380
Colorado & Southern	331,292	3,508
Grand Trunk of Canada, Grand Trunk Western, Detroit, Grand Haven & Milwaukee, Canada Atlantic	1,043,088	13,605
Louisville & Nashville	1,142,655	113,185
Mineral Range	20,842	6,636
Minneapolis & St. Louis, Iowa Central	235,924	3,576
Minn., St. Paul & S. S. M.	748,763	76,420
Missouri, Kansas & Texas	642,655	*44,727
Missouri Pacific	1,264,000	2,000
Nevada-California-Oregon	11,288	63
Rio Grande Southern	14,070	*349
St. Louis Southwestern	273,000	44,000
Southern Railway	1,362,937	146,653
Texas & Pacific	408,905	7,957
Toledo, Peoria & Western	25,970	1,328
Toledo, St. Louis & Western	125,108	22,252
Western Maryland	205,009	38,278
Total (32 roads)	$14,372,120	
Net increase (17.49%)		$2,146,247

*Decrease.

Construction News

OCTOBER BUILDING OPERATIONS

Building operations are continuing on a fair scale. Although in some sections of the country, the figures for the month show a decline, the other sections partially offset this loss by showing an increase. The whole situation shows improvement over a year ago due principally to the general industrial expansion.

The Eastern States give a decline but at this period of the year this is expected and contractors feel satisfied that conditions are much better than last year.

In the Central States an increase of four million is evidence that business is prospering and in comparison with a year ago shows a gain of over 40%.

Reports from the Southern States show a decline of over a million dollars since last month. It is difficult to account for this but it is believed that industrial operations in this section have decreased considerably, thereby affecting the building trade. A marked improvement, however, can be noticed over the same period of a year ago.

In the Western States the same activity is denoted as during the two months previous. The figures below, however, show a slight gain with a steady amount of operation.

Below is given a table showing the contemplated building operations in the different cities throughout the country:

EASTERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Albany, N. Y.	$705,365	$239,225	$3,724,825	$5,562,700
Bridgeport, Conn.	655,354	174,437	7,490,001	3,122,473
Buffalo, N. Y.	856,000	604,000	10,109,000	9,864,006
Elizabeth, N. J.	108,049	163,405	983,472	1,215,027
Hartford, Conn.	493,718	360,135	4,577,596	3,360,491
Hoboken, N. J.	16,390	24,950	591,434	765,677
Jersey City, N. J.	438,706	156,850	4 214,323	3,130,966
Newark, N. J.	723,279	709,080	7,180,747	8,792,350
New Bedford, Mass.	151,675	175,350	2,948,779	2,690,377
New Haven, Conn.	280,120	231,315	5,854,942	3,569,117
New York, N. Y.:				
Bronx	2,235,000	1,202,675	22,790,050	19,641,943
Brooklyn	3,670,692	2,453,340	27,116,312	35,552,850
Manhattan	2,420,750	3,551,075	57,152,900	43,151,165
Queens	675,852	967,840	16,805,038	16,183,925
Paterson, N. J.	90,496	55,247	1,311,920	1,428,445
Philadelphia, Penn.	2,980,665	2,467,310	34,432,290	32,688,940
Pittsburgh, Penn.	1,274,960	1,085,348	.....	.....
Reading, Penn.	91,775	28,475	975,075	1,118,825
Rochester, N. Y.	784,969	401,192	7,641,579	7,971,828
Scranton, Penn.	121,740	300,835	1,371,100	1,551,905
Springfield, Mass.	386,792	228,825	4,805,341	4,510,030
Syracuse, N. Y.	392,240	258,665	3,693,997	2,458,205
Utica, N. Y.	283,880	279,925	1,871,535	1,612,495
Totals	$19,838,467	$15,515,499	$227,441,266	$179,943,742

SOUTHERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Atlanta, Ga.	$252,251	$215,988	$4,045,433	$4,254,524
Birmingham, Ala.	136,747	138,373	1,587,022	2,966,233
Chattanooga, Tenn.	90,440	61,872	474,404	1,018,879
Dallas, Tex.	243,887	204,150	2,841,845	4,989,735
Ft. Worth, Tex.	91,192	150,045	961,424	1,815,578
Houston, Tex.	132,645	175,520	1,416,353	3,295,619
Louisville, Ky.	304,040	327,040	3,350,885	4,061,515
Memphis, Tenn.	165,005	105,580	2,394,613	2,761,289
Norfolk, Va.	120,288	125,210	1,527,805	1,996,356
Richmond, Va.	181,203	122,620	2,684,314	2,940,205
San Antonio, Tex.	110,380	83,150	1,282,305	2,579,610
Tampa, Fla.	158,210	111,110	.....	.....
Washington, D. C.	1,344,999	407,411	10,602,580	8,110,200
Totals	$3,331,287	$2,228,069	$33,168,983	$40,789,743

CENTRAL STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Akron, Ohio	$1,215,045	$248,465	$3,746,065	$3,425,995
Canton, Ohio	173,600	94,035	1,706,440	1,513,740
Chicago, Ill.	12,479,250	6,774,200	77,290,680	70,534,910
Cincinnati, Ohio	865,575	402,235	11,862,469	8,239,903
Cleveland, Ohio	3,097,685	2,265,685	27,155,984	23,938,540
Columbus, Ohio	369,085	649,220	4,472,645	5,512,476
Des Moines, Iow.	221,701	145,084	1,666,191	1,795,248
Duluth, Minn.	217,240	236,625	2,336,522	2,609,318
Evansville, Ind.	76,383	99,850	.....	.....
Grand Rapids, Mich.	169,576	152,080	2,208,892	3,324,744
Indianapolis, Ind.	532,777	337,689	6,111,365	7,318,158
Kansas City, Kan.	65,894	66,552	839,852	988,703
Kansas City, Mo.	1,512,015	533,790	9,350,765	9,639,150
Milwaukee, Wis.	747,169	611,577	10,455,671	8,798,928
Minneapolis, Minn.	2,338,555	1,064,570	14,515,516	13,989,510
Oak Park, Ill.	385,240	184,560	2,773,813	1,942,740
Omaha, Nev.	360,225	157,675	4,281,100	4,260,398
Peoria, Ill.	109,700	153,245	.....	.....
St. Louis, Mo.	1,214,618	1,115,874	10,017,100	11,538,589
St. Paul, Minn.	739,308	1,001,300	9,242,233	13,437,945
Toledo, Ohio.	815,552	404,939	6,828,499	5,668,561
Youngstown, Ohio	341,685	203,690	2,259,152	2,738,541
Totals	$28,047,878	$16,902,970	$209,120,954	$201,216,097

WESTERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Denver, Colo.	$192,450	$157,985	.....	.....
Los Angeles, Calif.	787,389	1,565,000	$9,999,460	$15,845,932
Oakland, Calif.	467,339	423,555	4,240,653	4,059,176
Portland, Ore.	351,030	508,705	4,382,882	6,278,890
Salt Lake City, Utah.	167,155	107,605	1,934,555	2,704,564
*San Diego, Calif.	119,408	115,886	1,022,702	2,801,763
San Francisco, Calif.	1,236,249	1,479,518	11,359,724	26,471,082
Seattle, Wash.	550,765	610,660	4,982,545	11,127,820
Spokane, Wash.	162,023	60,450	1,119,502	909,467
Tacoma, Wash.	70,205	46,563	659,811	1,845,596
Totals	$3,984,605	$4,960,041	$38,679,132	$69,242,527

*Not included in totals.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Worcester Consolidated Street Railway will extend Lake View Line to Lake Ave. thence to Sunderland Rd. to city line. H. C. Page, Worcester, Gen. Mgr.

Rhode Island—Rhode Island Co., plans line in Providence from city sea wall at Fields Point to connect with tracks of New York, New Haven & Hartford R.R. and Southern New England R.R. Edward Gagel, New Haven, Conn., Ch. Engr., New York, New Haven & Hartford, R.R.

Connecticut—Connecticut Co. plans to reconstruct tracks extending through Waterville, and double-track line from Homer St., where tracks enter Boyden St., through Thomaston Ave. C. H. Chapman, Mgr.

New Jersey—Council granted franchise to Salem-Pennsgrove Traction Co. for construction of line between Salem and Pennsgrove. Noted Sept. 30.

Pennsylvania—Philadelphia & West Chester Traction Co. plans extension of Collingdale Division from Parker Ave., Collingdale, to Chester Pike, Sharon Hill.

Delaware—Surveys being made for extension of Philadelphia & Reading Railway from South Wilmington, Del., to plants of Baldt Steel Co. and General Electric Co., near Newcastle. A. T. Dice, Philadelphia, Penn., Vice-Pres. and Gen. Mgr.

West Virginia—Huntington-Chesapeake Bridge Co., recently incorporated, asked County for franchise for street railway from Fourth Ave. and Sixth St. over Ohio River to Chesapeake, Ohio. Estimated cost, $500,000.

Kentucky—Baltimore & Ohio R.R. Co. securing right of way along river front in Ashland for extension from Kenova to Ashland. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio—Baltimore & Ohio R.R. Co. plans extending line and building station in Canton. Estimated cost, $200,000. F. L. Stuart, Baltimore, Ch. Engr.

Ohio—Cincinnati Traction Co. has secured right-of-way for extension of line to Bond Hill over Paddock Rd. Noted Aug. 26.

Ohio—Mahoning & Shenango Railway & Light Co. will reconstruct Wilson and Federal St. lines in spring. Estimated cost, $175,000. C. O. Bailey, Youngstown, Ohio, Pur. Agt.

Wisconsin—A. C. Lingelbach, Milwaukee, Wis., promoting building of interurban railway from Green Bay to Sheboygan.

Minnesota—Mesaba Electric Railway Co. contemplates improving line between Virginia and Hibbing. H. S. Newton, Gen. Mgr.

Montana—Plans prepared for railway from Ulm to Hound Creek, east of Great Falls, about 60 miles, for Great Falls & Southwestern Railway. E. L. Dana, Parkman, Wyo., Pres. Noted Sept. 16.

Missouri—Commercial Club contemplates building electric railway out of Joplin. A. S. Wilson, J. F. Lanier and Albert Schmidt are interested.

Arkansas—St. Louis, Iron Mountain & Southern Railway (Missouri Pacific System) contemplates branch line from Buffalo City to Rush, Ark. J. F. Murphy, St. Louis, Mo., Gen. Mgr.

Texas—Plans being prepared for railway connecting Van Horn north with New Mexico state line, about 71 miles. Van Horn Valley Land and Railway Co., R. H. Owen, Pres., interested.

Texas—Gulf, Colorado & Santa Fé Railway will soon receive bids for building Gulf and Interstate division from High Island to Port Bolivar, 27 miles.

Texas—Gulf, Texas & Western Railway will extend line from Mineral Wells, Tex. to Seymour, 108 miles, from Salesville east to Ft. Worth, about 50 miles. Benjamin B. Cain, Dallas, Vice-Pres. and Gen. Mgr.

Oklahoma—Company being organized to build railway from Frisco System at Peckham to Santa Fé System at Braman.

Oklahoma—Sallisaw, McAlester & Southwestern R.R. Co., recently incorporated, will build railroad in spring from Spigler through McAlester and to Coalgate. H. B. Smith, McAlester, interested.

Colorado—Surveys made and plans being prepared for electric railway to connect Denver with cities in northern part of state with one branch line to Estes and Rock Mountain National Park.

Colorado—Plans being prepared for taking roadbed and right-of-way of Denver, Laramie & Northwestern R.R. and electrifying road to Greeley. C. M. Smith, Supt., Utah Junction, Colo. (Denver post office). Estimated cost, $500,000.

Utah—Salt Lake & Utah Railway contemplates extension of line to Payson. W. R. Armstrong, Salt Lake City, Gen. Mgr. and Ch. Engr.

Utah—Union Pacific R.R. contemplates line from Park City to Uinta Valley, about 75 miles. R. L. Huntley, Ch. Engr., Omaha, Neb.

Nevada—Richmond Mining Co. plans railroad from Eureka to Elko.

Washington—McCoy Loggie Timber Co., Bellingham, will build four miles of railroad from present terminus to Welcome.

Washington—Pacific Traction Co. contemplates extending line on Steilacoom Blvd., Starling St. and Steilacoom Ave. to Union and Lafayette, about two miles. George W. Rounds, Gen. Mgr.

Washington—Puget Sound & Cascade Ry. Co. will extend line west from Clear Lake to Mount Vernon, 7 miles. B. R. Lewis, Pres.

Washington—Seattle Port Commission contemplates belt-line railroad-terminal system to serve Main Elliott Bay waterfront, Smith Cove, Interbay, Salmon Bay and Lake Union Districts. Proposition will be submitted to citizens at election on Dec. 4. Estimated cost, $400,000.

Oregon—Linnton Council granted franchise to O. M. Clark and associates for railway from Portland to Linnton.

Oregon—Southern Pacific Co. has entered into contract with Booth-Kelly Lumber Co. to build spur to timber land near Wendling Ranch. W. Hood, San Francisco, Calif., Ch. Engr.

California—(Official)—Bids will be received until Nov. 26 by Board of Public Works for railway from Rosasco into Hetch Hetchy reservoir, about 67 miles. M. M. O'Shaughnessy, San Francisco, City Engr. Noted Oct. 7 and 21.

California—Western Pacific Railway having preliminary surveys made for branch line from Quincy to Engels copper mine in Lights Cañon. C. M. Levey, San Francisco, Gen. Mgr.

Bids In and Contracts Awarded

North Carolina—Linville River Railway awarded contract to H. C. McCRARY, Knoxville, Tenn., for extending line from Montezuma via Linville, Linville Gap and Foscoe, N. C. to Shulls Mills, N. C., 14 miles. W. O. Dyer, Ch. Engr.

California—Pacific Electric Ry. awarded contract to ROBERT SHERER & CO., Los Angeles, for grading roadbed between Hawthorne and Iona Ave. on Redono via Watts Line. Estimated cost, $20,000.

LIGHT, HEAT AND POWER

Proposed Work

Mass., North Adams—Bids will be received until noon, Nov. 17, by School Committee, for heating and ventilating system in Drury high school. F. J. Oleara, Secy., School Bd.

Mass., Quincy—Fore River Shipbuilding Corporation plans to build power house. Estimated cost, $600,000.

N. Y., Albany—Municipal Gas Co. granted permit for construction of Riverside power station. Estimated cost of superstructure, $100,000.

N. Y., Oswego—Public Service Commission received application from Niagara, Lockport & Ontario Power Co., Buffalo, for permit to build transmission lines in Oswego.

N. Y., Patterson—Ralph Griffing has applied to Public Service Commission for permit to build electric-light plant and for approval of franchise granted by town.

N. J., Toms River—Ocean County Electric Co., recently incorporated with $525,000 capitol stock, plans to build a dam across Toms River between Toms River and Allenhurst to generate power for industrial purposes. J. P. Murray, Philadelphia, interested.

Penn., Mauch Chunk—Carbon Transit Co. will enlarge and concentrate power plants, install 250-hp. boiler and 300 kw., 600 volt d.c. generating unit.

Penn., Williamsport—Plans prepared for improving Northern Central Gas Co. Work includes two miles of 12-in. main and approximately 2,100-ft. of service lines in Rose St.

Va., Blackstone—Franchise granted C. E. Wilson, Crewe, for electric-light plant.

Fla., Clearwater—J. N. and J. M. McClung granted franchise by Commissioners of Pinellas County for electric-light and power system in Clearwater.

Fla., Homestead—Bonds for $40,000 voted for electric-light plant.

La., White Castle—Bids will be received until Nov. 17 by H. S. Batts, Mayor, for electric-light plant. E. A. Kramer, Magnolia, Miss., Engr.

Tenn., Camden—John D. Rice and W. Powry plan to construct electric-light plant.

Ohio, Canton—Bids will be received until Nov. 22 by Board of Education for electrical work in new Daniel Worley School.

Ohio, Eaton—Capitol stock of Eaton Lighting Co. has been increased from $50,000 to $80,000. Company plans to extend its transmission line and service to Camden, Ohio.

Ohio, Lorain—Citizens defeated $350,000 bonds for municipal electric-light plant. Noted Oct. 7.

Ohio, Mansfield—Plans being considered by Mansfield Electric Co. to extend its transmission line to Bellflower, about seven miles.

Ind., Grandview—Rockport Water Works Co., Rockport, plans to extend its transmission line to Grandview to furnish electrical service, about 15 miles.

Ind., Nashville—Citizens voted $7,000 bonds for electric-light plant.

Ind., Shoals—Shoals Utilities Co. plans to issue $27,500 capital stock, proceeds of which will be used for improving electric-light plant and water system.

Ill., Hamilton—Press reports state that right-of-way is being secured for transmission line from Hamilton to Carthage, about 12 miles.

Wis., Appleton—Bids will be received about Nov. 15 by Woodmansee & Davidson, Consult. Engr., First National Bank Bldg., Chicago, Ill., for addition to steam power plant of Wisconsin Traction, Light, Heat and Power Co. Noted Aug. 19.

Wis., Chippewa Falls—Wisconsin-Minnesota Light and Power Co. will rebuild dam of C. L. & B. Co. Estimated cost, $500,000.

Wis., Milwaukee—Plans being considered by Milwaukee Electric Railway and Light Co. to extend its transmission line to Merton and Lake Five.

Wis., Shawano—Election will soon be held to vote to issue $60,000 bonds for dam and hydro-electric power plant of Wolf River.

Iowa, Cedar Rapids—Iowa Power and Light Co. plans to build electric transmission line from Cedar Rapids to Shellsburg, about 15 miles.

Iowa, Corwith—City plans to install municipal electric-lighting system. Estimated cost, $5,000.

Iowa, Ft. Madison—Plans being considered by Ft. Madison Electric Co. for constructing a substation.

Iowa, Keokuk—Application has been made to State Public Utilities Commission by Mississippi River Power Co. for permit to build 12 mile spur from main transmission line to Carthage.

Iowa, Orient—City Council plans to install electric-light system. Estimated cost, $7,000.

Iowa, Waverly—See item under "Water Works."

Kan., Little River—Bids will be received until Nov. 15 for municipal electric-light plant and distributing system. Estimated cost, $16,000. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, Mo., Engr.

Neb., Lincoln—Election will be held Nov. 19 to vote on bonds for installation of electric-lighting system.

N. D. Medina—City contemplates electric-light system.

Tex., San Angelo—See item under "Water Works."

Tex., San Anglo—See item under "Water Works."

Okla., Stillwater—Election will be held Nov. 16 to vote on $24,000 bonds for extending electric-light system.

Idaho, Dubois—See item under "Water Works."

Idaho, Oneida—Work will soon be started on addition to hydro-electric power plant of Utah Power and Light Co., Salt Lake City, on Bear River. Estimated cost, $250,000.

Utah, Garden City—Plans being considered by Swan Creek Electric Co. for enlarging its plant at Swan Creek and to extend its transmission lines to Paris, Bloomington, St. Charles and Fish Haven.

Calif., Loyalton—City plans to install municipal electric-light plant. Estimated cost, $5,000.

Que., Waterville—Sherbrooke Railway and Power Co. contemplates building substation.

Ont., Petrolia—Plans being prepared for transformer station. Estimated cost, $5,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Interboro Rapid Transit Co. awarded contract for substation No. 7 at 99th St. and Third Ave. to F. W. BURNHAM, 30 East 42d St.

N. J., Trenton—STRANG ELECTRIC CO., 214 South Seventh St., Philadelphia, Penn., at $4,024, awarded contract for electrical work for new admission building at State Hospital.

Ill., Dixon—Board of Administration awarded contract to W. M. ALIEN & SONS, Peoria, at $48,000 for power house for State Colony for Epileptics. Noted Sept. 30.

Ill., Peoria—Contract for electric work at new county jail awarded to ANTHONY KEEFER at $11,500; heating system to J. M. SHEA & CO., at $4,350.

Kan., Hiawatha—Contract for heating and plumbing system in new high school awarded to O'CONNOR CO., Muskogee, Okla., at $11,197.

Mo., Gallatin—See item under "Water Works."

Mo., Poplar Bluff—(Official)—Contract for municipal electric-light and power plant awarded to UNITED ENGINEERING CO., Chicago, Ill. Estimated cost, $46,400. Noted Oct. 21.

Que., Sherbrooke—Contract for municipal gas plant awarded to WESTERN GAS CONSTRUCTION CO., Cleveland, Ohio, at $30,980. Noted Aug. 12.

BRIDGES

Proposed Work

Mass., Boston—Bids will be received until noon, Nov. 22, by Metropolitan Park Commission, 1 Ashburton Pl., for reinforced-concrete bridge over Charles River at North Beacon St.

N. Y., Kingston—Commission of Highways, Albany, preparing plans for bridge at Kingston.

Penn., Watsontown—Northumberland County Court has directed Northumberland County Commissioners to build bridge across Susquehanna River between Watsontown and White Deer. Estimated cost, $150,000.

Ga., **Savannah**—Carolina, Atlantic & Western Railway plans to build bridge across Back River.

Tenn., **Harriman**—Plans prepared by S. A. Breazeale, Rd. Comr., for concrete bridge across Emory River. Estimated cost, $50,000.

Tenn., **Knoxville**—City Commissioners contemplate construction of a viaduct from Depot to Vine St. Estimated cost, $500,000.

Ky., **Covington**—(Official)—Bids will be received by J. Mason Howk, Comr. of Public Prop., until 10 a.m., Dec. 9, for bridge to carry duplicate water supply main over the Licking River. Noted Oct. 21 and Nov. 4. (See adv.)

Ohio, **Cincinnati**—Bids will be received by Board of County Commissioners until noon, Nov. 19, for concrete box culvert on Old State Rd., Anderson Township.

Ohio, **Cleveland**—Bids will be received by E. G. Krause, Clk., Comrs. of Cuyahoga County, until 10 a.m., Nov. 17, for bridge work. W. A. Stinchcomb, County Engr.

Ohio, **Monroe**—Election will be held in December to vote on $60,000 bonds for bridge over Raisin River.

Ill., **Highwood**—Chicago & Milwaukee Electric Railroad Co. contemplates bridges estimated to cost $40,000.

Ill., **Quincy**—(Official)—Bids will be received by County Superintendent of Highways until 2 p.m., Nov. 27, for steel bridge in Richfield Township, Adams County.

Wis., **Prairie du Sac**—Citizens voted $12,000 bonds for bridge over Wisconsin River.

Kan., **Abilene**—(Official)—Bids will be received until noon, Nov. 18, by County Commissioners for bridge repairs. Estimated cost, $7,000. Noted Oct. 7.

Kan., **Ottawa**—Citizens contemplate construction of bridge across Marais Des Cygnes River. J. Z. Clark, Comr.

Mo., **Joplin**—(Official)—Bids will be received by O. E. Lichliter, City Clk., until 10 a.m., Nov. 17, for North Main St. viaduct. Estimated cost, $35,000. Noted Oct. 7 and 21.

Ark., **DeQueen**—County Court has made an appropriation for bridge over Little River at Greenwood Shoals and Sycamore Creek near Lockesburg and to repair bridges.

Ark., **Wilmot**—Appropriation of $8,000 made by Commissioners of Ashley County, Hamburg, for steel bridge across Bayou Bartholomew near Wilmot.

Tex., **Marlin**—County Court has been asked by W. N. Moore, County Comr., Reagan, to replace bridge which was recently destroyed with 110-ft. steel span.

Tex., **Marshall**—Election will be held Nov. 23 to vote on $50,000 bonds for viaduct over tracks of Texas & Pacific Railway. Noted Nov. 4.

Colo., **Denver**—Commissioner of Improvements has asked for an appropriation of $45,000 for concrete bridge over Cherry Creek at West Colfax Ave.

Colo., **Denver**—Commissioner of Improvements has asked for appropriation of $30,000 for concrete bridge over Cherry Creek on Logan St.

Idaho, **Caldwell**—Bids will be received until Nov. 22 for bridge across Boise River. Estimated cost, $17,500. Fred H. McConnell, County Engr.

Calif., **Sacramento**—Bids will be received by California State Highway Commission, Forum Bldg., until Nov. 29, for plate-girder bascule bridge near easterly side of Yolo By-Pass. W. R. Ellis, Secy. of Comn.

Bids In and Contracts Awarded

N. Y., Gloversville—Bids were received for reinforced-concrete bridge over east channel of Hudson River from K. Guthrie, Schenectady, at $23,500 and J. F. Leary Construction Co., Rochester, at $25,960.

Penn., **Bethlehem**—S. W. Chiles, South Bethlehem, at $4,252, submitted lowest bid for paving Broad St. bridge.

Penn., **Kennett Square**—P. J. Riley, Westchester, at $5,650, submitted lowest bid for stone arch bridge over Red Clay Creek.

Penn., **Mercer**—Bids were received for bridge to replace State St. structure from T. F. Hungiville, at $54,000, for single span bridge and from Canton Bridge Co., at $49,990, for two span bridge.

Va., **Hampton**—E. C. McCOMB, Roanoke, at $4,850, submitted lowest bid for three concrete bridges. Noted Oct. 14.

N. C., **Kinston**—Contract for bridge over Neuse River at Caswell St. awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., at $9,485. Noted Oct. 21.

Ind., **Lafayette**—Contract for steel bridge over Wildcat Creek, east of Dayton, awarded to WEST & JAMISON, at about $11,000.

Ill., **Rockford**—(Official)—Contract for superstructure of bridge in Rockton Township awarded to WORDEN-ALLEN CO., Milwaukee, Wis., substructure to NORTHERN STEEL AND CONCRETE CO., Freeport, Ill. A. R. Carter, County Supt. of Highways. Noted Oct. 7.

Wis., **Cleveland**—Contract for steel bridge across Eau Pleine River awarded to WASSAU IRON WORKS, Wassau, at $12,989.

Minn., **St. Paul**—Contract for bridge at Surrey St. awarded to ILLINOIS STEEL CO., at $7,645.

N. D., **Montpelier**—Contract for bridge awarded to J. JARDEEN, Jamestown, at $8,000.

Tex., **Harrisburg**—Horton & Horton, at $19,960, submitted lowest bid for bridge in Harris County.

Okla., **Beaver**—Contract for bridge over Cimarron River for Beaver, Mead & Englewood Railway Co., awarded to J. T. HARVEY, Wichita, Kan.

Okla., **Enid**—Contract for constructing and repairing bridges in Garfield County awarded to MONARCH ENGINEERING CO., Falls City, Neb., at $12,911. Noted Sept. 16.

Colo., **La Junta**—Contract for bridge across Purgatory River awarded to PUEBLO BRIDGE CO., at $6,440.

Idaho, **Boise**—Bids were received Oct. 22 for steel bridge across Lake River at McKeeth's Ferry as follows: Missouri Valley Bridge and Iron Co., Denver, Colo., $19,860; Coas Bridge Co., Portland, Ore., $20,000; Midland Bridge Co., $20,750.

Wash., **Walla Walla**—Contract for steel bridge awarded to C. L. GRAVES at $4,090.

Ore., **Heppner**—GRANT-SMITH & CO., Henry Bldg., Seattle, at about $10,000, awarded contract for steel superstructure of bridge for Oregon-Washington Railway and Navigation Co.

Calif., **Los Angeles**—MESMER & RICE, 231 Marsh-Strong Bldg., Los Angeles, awarded contract for bridge over Castaic Creek, at $30,761, and for bridge over south fork of Santa Clara River at $25,974.

Calif., **Sacramento**—(Official)—Bids were received Oct. 1 by State Highway Commission for bridge in Imperial County as follows: Holland Construction Co., San Diego, $15,600; Forest City Paving & Construction Co., Live Oak, $17,885; Robert Shearer & Co., Los Angeles, $28,748.

Calif., **San Diego**—P. H. C. SPARKS, at $7,380, awarded contract for concrete bridge over San Elijo Lago on State Highway at Ardiff.

Calif., **Santa Barbara**—Contract for steel bridge across Dos Pueblos Creek awarded to SECURITY CONSTRUCTION CO., 3710 South Alameda St., Los Angeles, at $9,720; reinforced-concrete girder bridge across Eagle Canon Creek to BOARDMAN CONSTRUCTION CO., 1107 Story Bldg., Los Angeles, at $10,961.

WATER WORKS

Proposed Work

N. Y., Glens Falls—Citizens defeated proposition to install gravity water system. Estimated cost, $270,000. C. E. Perry, Albany, Consult. Engr.

N. Y., Ramapo—Ramapo Mountains Water Power and Service Co., recently incorporated with capital of $150,000, will build water distributing plant.

N. J., Glen Rock (Ridgewood Post Office)—Board of Public Utility Commissioners granted permission to Glen Rock Water Works to make extensions to water system and install hydrants.

N. J., Ventor—Bids will be received until Nov. 22 by city for supply of pumps, air compressors, etc.

Penn., **Contesville**—City will proceed with construction of Rock Run Water Works. Bonds for $185,000 voted for same two years ago.

Penn., **Fleetwood**—City plans to install water system. Estimated cost, $10,000.

Va., **Mineral**—City plans to install water system. Estimated cost, $5,000. W. P. Burch, Clk. of Water and Light Com. of Business Men's Assoc.

N. C., **Greensboro**—See item under "Sewers."

La., **Monroe**—City plans to issue $500,000 bonds. Part of proceeds will be used to improve water system.

Tenn., **Benton**—Citizens defeated $10,000 bond issue for water works. Noted Sept. 30.

Miss., **Pass Christian**—See item under "Streets and Roads."

Ohio, **Athens**—City plans to construct water system. Estimated cost, $40,000.

Ohio, **Byesville**—(Official)—Citizens defeated $40,000 bonds for water system. Noted Sept. 30 and Oct. 21.

Ohio, **Janesville**—Plans being prepared for enlarging and relining two city reservoirs. Estimated cost, $25,000.

Ohio, **Sandusky**—Bonds for $8,300 will be sold for improving water system.

Ohio, **Shaker Heights**—(Cleveland post office)—Bids will be received by C. A. Palmer, Village Clk., First National Bank Bldg., Cleveland, until noon, Nov. 30, for 10-in. water main in South Woodland Rd.

Ind., **Shoals**—See item under "Light, Heat and Power."

Mich., **Albion**—Election will be held Dec. 14 to vote on $10,000 bonds for completing municipal water system. Noted Nov. 4.

Mich., **Menomoninee**—(Official)—Citizens voted $285,000 bonds for either purchase of property of Menomoninee Water Co. or construction of municipal water system. Noted Oct. 21.

Mich., **Tecumseh**—Board of Trade interested in formation of company to be known as Tecumseh and District Waterworks Corporation, who plan to install water system. Estimated cost, $25,000.

Ill., **West Frankfort**—Bids will be received by O. Dorris, City Clk., until Nov. 22, for municipal water system.

Wis., **Madison**—M. E. Layne, of Layne & Bowler Co., Houston, Tex., retained to survey water system and submit a plan for development of the artesian water supply.

Wis., **Madison**—University of Wisconsin has had preliminary plans prepared for improving pumping station. Estimated cost, $20,000.

Wis., **Melrose**—Bids will be received by Z. P. Gilbert, Village Clk., until Dec. 1, for water system.

Wis., Sheboygan—City Commissioners contemplate installing 300 hp. high pressure boiler and 12,000,000 gal. high duty pumping station.

Iowa, Holstein—See item under "Sewers."

Iowa, Moville—Citizens voted $6,000 bonds for water system.

Iowa, Waverly—Bonds for $50,000 voted to purchase electric-light plant and construct sewage-disposal plant and water system.

Minn., St. Cloud—Bids will soon be received for 13,000 ft. of 6-in. iron water pipe.

S. D., Scotland—Town Council contemplates new water system. Estimated cost, $4,000.

N. D., Ellendale—(Official)—Citizens defeated $9,000 bonds for water system. Noted Oct. 21.

Mont., Broadview—Bids will soon be received for water system. Estimated cost, $30,000.

Mont., Glendive—Construction of 2,000,000-gal. filtration plant under consideration. A. Colin, City Clk.

Mont., Roundup—Contract will soon be awarded for extension of water mains along various streets in District No. 13. Estimated cost, $10,000.

Ark., Piggott—City has issued $40,000 for proposed water system. A. C. Moore, Joplin, Mo., Consult. Engr.

Tex., Alice—City plans to extend water mains about 30 blocks and install about 30 fire plugs.

Tex., Beeville—Bartlett & Ranney, Consult. Engr., San Antonio, retained to prepare plans for water system and electric-light plant. Estimated cost between $20,000 and $30,000. Noted Sept. 23.

Tex., San Angelo—Plans being considered by San Angelo Water, Light and Power Co. for improving water system and electric-light plant. Estimated cost, $50,000.

Tex., Winters—Bonds for $6,000 voted for extending water system.

Okla., Cleveland—Election will soon be held to vote on $125,000 bonds for water system. A. C. Moore, Joplin, Mo., Consult. Engr.

Okla., Clinton—Plans being prepared by Benham Engineering Co., Colcord Bldg., Oklahoma City, for water works. Noted Oct. 14.

Colo., Boulder—City plans expenditure of $6,000 for improving water system.

Colo., Loveland—City Council estimates cost of improving water system at $60,000. Noted Oct. 21

Colo., Platteville—Plans prepared by L. L. Stimson, Greeling, for water system. Estimated cost, $20,000. Noted Oct. 14.

Idaho, Dubois—D. T. Murphy, Pocatello, plans to install water system and electric-light plant.

Idaho, Fairview—Election will be held Nov. 22 to vote on $10,000 bonds for municipal water system.

Utah, Roosevelt—Contract will soon be awarded for water system. Estimated cost, $10,500.

Wash., Nooksack—L. A. Sorber, Nooksack, has applied for water rights to construct two water systems to supply the towns of Nooksack and Everson. Estimated cost, $10,000 each.

Wash., Ridgefield—Citizens voted to issue $11,000 bonds for water system. Noted Sept. 30.

Calif., Corcoran—Election will soon be held to vote on $30,000 bonds for water system.

Calif., Imperial—See item under "Sewers."

Calif., Oakdale—South San Joaquin Irrigation District plans to build reservoir. Estimated cost, $300,000.

Calif., San Francisco—City will install water main and water tank in University Mound District. Estimated cost, $4,000.

Calif., San Francisco—Bids will be received by Supervisors' Finance Committee until Dec. 6 for purchase of $43,287,000 bonds for Hetch Hetchy project.

Calif., Stockton—Plans prepared for improving pumping station of Pacific Gas and Electric Co., at Sonora and East St. Estimated cost, $25,000.

N. B., St. Andrews—Town Council plans to extend water system. Estimated cost between $20,000 and $30,000.

Bids In and Contracts Awarded

Conn., Hartford—Bids received Nov. 1 by Board of Water Commissioners for clearing and grubbing Nepaug Reservoir, (a) northern section, (b) southern section, as follows: L. I. Fletcher, Akron, Ohio, (a) $25,670, (b) $22,745; F. T. Ley Co., Springfield, Mass., (a) $26,720, (b) $21,895; Roberts Construction Co., Fitchburg, Mass., (a) $24,990; Davis & Brock, Brookline, Mass., (b) $23,450. Noted Oct. 21.

N. J., Bayonne—Board of Commissioners has awarded contract to CHARLES T. KAVANAUGH, INC., for water system in 22d St. Estimated cost, $10,999.

N. J., Peapack—Contract for water system awarded to H. C. BROOKS CO., Martinsburg, W. Va., at $45,000. Noted Sept. 9 and Oct. 14.

Iowa, Humbolt—Contract awarded to DES MOINES BRIDGE AND IRON CO., Des Moines, for water system. Noted Aug. 26

Iowa, Kenawha—MIDWEST ELECTRIC CO., Omaha, Neb., at $4,755, awarded contract for distribution plant.

Iowa, Perry—Contract awarded to MERKLE-HINES MACHINE CO., for pump for water-works. Estimated cost, $[illegible]00.

Minn., St. Paul—Contract for laying pipes on Third Ave. and Third St. S., awarded to O'NEIL & PRESTON, St. Paul, at $25,400.

Kan., Newton—Contracts for improvements to water system awarded as follows: MURRAY IRON WORKS, Burlington, Iowa, at $8,175 for generating engines; H. R. WORTHINGTON, 925 Scarritt Bldg., Kansas City, Mo., at $9,636, for 3,000,000-gal. Corliss pump in engine and at $5,790, for two deep well pumps.

S. D., Dallas—Contract for water system awarded to C. H. GREEN & CO., at $10,000. Noted Oct. 14.

Mo., Gallatin—Contracts for water works and electric light improvements awarded to WESTINGHOUSE CO., for 75 k.v.a. generator, exciter and switchboard with equipment and station wiring; AMERICAN WELL WORKS, for two centrifugal pumps with 20 hp. motors; AMERICAN CAST IRON PIPE CO., for 150 tons 4 in. c.-i. pipe and 10,000 lb. special castings; MERKLE-HINES MACHINERY CO., for fire hydrants, tub-end connections, gate valves and valve boxes; GEORGE TOMLINSON, for power house, pump and engine foundations, concrete storage reservoir and repair to well; F. D. MARTIN CONSTRUCTION CO., for all pipe valves, fittings for pumps at power house and well.

Mo., Kansas City—Contract for intake for pumping station awarded to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., at $30,350.

Ark., Heber Springs—Contract for water system awarded to INLAND CONSTRUCTION CO., Chandler, Okla., at $50,800. Noted Oct. 28.

Wash., Hillyard—All bids received for water tanks rejected as too high. Sawyer Bros., Spokane, Consult. Engr. Noted Aug. 12 and 19.

Ore., Amity—(Official)—Contract for water system awarded to J. P. O'NEILL, Portland, at $9,777. Noted Sept. 30 and Oct. 28.

SEWERS

Proposed Work

Mass., Boston—(Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 12, for pipe sewers and drains in Randall St., Roxbury.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., 511 City Hall Annex, until noon, Nov. 12, for sewerage works in Pleasant, Dent, Ivory and Perham St., West Roxbury.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 18, for sewerage works in Woodman, Custer, Ballard, Bardwell, Hathaway, Center and Aldworth St. and Dunster Road, West Roxbury.

Mass., Boston—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 15, for sewer work in Canal St.

Mass., Boston—Appropriation of $26,000 for sewers on North Beacon St. approved by Mayor.

Mass., Boston—Bids will be received by Metropolitan Water and Sewerage Board, 1 Ashburton Pl., until 1:30 p.m., Nov. 12, for Metropolitan Sewerage Works.

Mass., Brighton—City plans to install sewers in North Beacon St. between Cambridge and Market St. Estimated cost, $26,000.

N. Y., Oneonta—City contemplates sewage-disposal plant. Estimated cost, $45,000. F. M. Gurney, City Engr.

N. Y., Patchogue—City plans an expenditure of $116,000 for sewer work. C. Potts, 30 Church St., New York, Consult. Engr.

N. J., Atlantic Highlands—Council instructed by State Board of Health to install sewage-disposal plant. Citizens voted to appropriate $25,000 bonds for extension of sewers within borough limits.

N. J., Camden—Bids will be received by Highway Department until 8 p.m., Nov. 15, for sewers in Pulaski, Ninth, 29th and 30th St., Sherman and Arthur Ave. and Park Blvd.

N. J., East Orange—City considering plans for joining Passaic Valley sewerage system, including Orange and Montclair. Estimated cost from $550,000 to $900,000. Hering & Gregory, 170 Broadway, New York, N. Y., Engr.

N. J., Ocean Grove—(Official)—Bids will be received at office of Neptune Township Committee, 75 South Main St., until 8 p.m., Nov. 22, for about 10,800 lin. ft. of citrified pipe sewers. (See adv.)

N. J., Perth Amboy—City Council contemplates new sewer systems in Cornell St. and Compton Ave. Wilbur La Roe, City Clk.

N. J., Trenton—Ordinances have been passed authorizing construction of sewers Nos. 642, 643 and 637 in Emmett, Park and Home Ave.

Penn., Allentown—C. D. Wierbach, City Engr., estimated cost of sewer system and sewage-disposal plant on Koehler Farm at $1,318,250.

Penn., Columbia—(Official)—Citizens defeated $100,000 bonds for sewer system. Noted Oct. 28.

Penn., Greensburg—City contemplates sewage-disposal plant. J. J. Neel, City Engr.

Penn., Harrisburg—(Official)—Bids will be received by Samuel B. Rambo, Supt. of Pub. Grounds and Bldg., until 2 p.m., Nov. 23, for sewer outlet from Pennsylvania State Capitol and Library Buildings to connect with brick sewer at Third and State St.

Penn., Parnassus—Chester & Fleming, Engr., Pittsburgh, retained to prepare plans for sewage system and sewage disposal plant.

Md., Baltimore—Sewerage Commission asked City Controller for appropriation of $200,000 for sewer work in 1916.

N. C., Greensboro—Election will be held Dec. 14 to vote on $75,000 bonds for improving and extending sewers and water system.

Ga., Atlanta—City contemplates sewer system in Buckhead District. Estimated cost, $50,000.

Fla., Eustis—Isham Randolph Co., Chicago, Ill., preparing plans for sewerage system, including Imhoff tank. Estimated cost, $20,000.

Fla., St. Augustine—C. E. Henderson, City Engr., preparing plans for sewer system.

Tenn., Camden—City plans to construct sewer system during 1916.

Ky., Lexington—(Official)—Citizens voted $350,000 bonds for sewer system. James J. O'Brien, City Clk. Noted Sept. 16.

Ky., Lexington—Ordinance passed by City Commission authorizing construction of sanitary sewers and paving several streets in Forest Hill. J. O'Brien, City Clk.

Ohio, Canal Dover—City contemplates sewage-disposal plant about one mile south of Canal Dover. Estimated cost, $60,000. G. E. Arnold, Broadway, New Philadelphia, Engr.

Ohio, Columbus—Bids will be received until Dec. 1 by George A. Borden, Dir. of Pub. Serv., for motor-driven centrifugal pump at East Side sewage pumping station.

Ohio, Columbus—(Official)—Bids will be received by G. A. Borden, Dir. of Pub. Serv., until noon, Nov. 23, for Frames Ave. relief sewer.

Ohio, Dayton—City plans sewer district in Dry Hollow Centers. Estimated cost, $200,000. Harrison P. Eddy, Consult. Engr.

Ohio, Elyria—Plans being considered by City Council for three large storm sewers. Estimated cost, $150,000.

Ohio, Lakewood—Bids will be received by E. M. Cook, Dir. of Finance, until noon, Nov. 15, for sale of $9,270 bonds for sewer in Louis Drive.

Ohio, New Comerstown—City contemplates sewage-disposal plant. Estimated cost, $60,000. E. Beaty, City Engr.

Ohio, Springfield—(Official)—Bids will be received by C. E. Ashburner, City Mgr., until noon, Nov. 15, for constructing a number of sewers in various streets.

Ohio, Toledo—Bonds for $60,070 sold for five miles of sewers in Home Acres, West Toledo. Noted Oct. 28.

Ohio, Urichsville—Plans will soon be prepared for sewage-disposal plant to be used jointly by Urichsville and Dennison. Estimated cost, $75,000. George E. Arnold, Broadway, New Philadelphia, Engr.

Ohio, Xenia—(Official)—Bonds for $60,000 sold for sewage-disposal plant. Noted Oct. 14.

Ind., Indianapolis—Board of Works plans to construct sewers in Meridian, Madison and State St. Estimated cost, $16,000.

Ind., Logansport—Bids will be received some time next spring for sewers in eastern section of city. Estimated cost, $350,000. Noted Aug. 19 and 26.

Mich., Hancock—(Official)—We have been informed that city will do nothing at present time in regard to new sewer system as stated in our issue of Oct. 21.

Ill., McHenry—City plans to install sewer system. Estimated cost, $8,090.

Wis., Racine—Board of Public Works estimates cost of sewers in district bounded by Herrick Ave., 12th St., Washington Ave. and Washington Park at $14,020.

Wis., Superior—City plans an expenditure of $35,000 for sewer work.

Iowa, Holstein—Citizens voted $18,000 bonds for sewer and water systems. A. G. Merkley, City Recdr.

Iowa, Waverly—See item under "Water Works."

Minn., Duluth—City contemplates sewer in 56th Alley from Main to Nicollett St.

Minn., St. Paul—(Official)—Bids will be received by August Hohenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 15, for sewer on Page St. between Andrew St. and Brown Ave.

Minn., St. Paul—(Official)—Bids will be received by August Hohenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 15, for sewer on Carroll Ave.

Kan., Larned—Preliminary plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for storm sewers. Estimated cost, $80,000.

Kan., Liberal—Plans being prepared by E. T. Archer & Co., Engr., Kansas City, Mo., for sewer system and sewage disposal plant. Estimated cost, $35,000.

Kan., Neodesha—Plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for sewage-disposal plant. Estimated cost, $50,000.

Kan., Osborn—Preliminary plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for storm sewer.

N. D., Mandan—Report submitted estimated cost of installing drainage system in portion of city at $16,131. Black & Griffin, Engr.

Ark., Nashville—See item under "Water Works."

Tex., Austin—See item under "Streets and Roads."

Tex., Ennis—Plans being prepared by N. Werenskoild, Consult. Engr., Dallas, for sewage-disposal plant.

Tex., Houston—Citizens voted $1,000,000 bonds for sanitary sewers and sewage-disposal plants.

Tex., Lancaster—Plans are being prepared for sanitary sewer system. Estimated cost, $15,000. H. E. Rawlins, City Secy. Noted Oct. 21.

Tex., Temple—City Commissioners authorized extension of sanitary sewer mains in northwestern section of city 6,000 ft.

Okla., Muskogee—Bids will be received about Dec. 1 for sanitary sewer system. Estimated cost, $23,000. E. F. Peterson, City Engr. Noted Oct. 14.

Wash., Seattle—Report submitted to City Council estimating cost of sewers in West and North 50th St. at $68,619.

Ore., Portland—All bids for reconstructing wood box sewer in Mill and Water St. rejected. New bids will be received. Noted Oct. 28.

Ore., Portland—City Council rejected all bids for sewer in Hall St. New bids will be received.

Calif., Imperial—Election will soon be held to vote on $100,000 bonds. Part of proceeds will be used for improving sewer and water systems.

Calif., Los Angeles—City plans to construct sewers in Meridian, Ardmore, Van Ness and 57th St.

Calif., Los Angeles—Plans being prepared for north outfall sewer system. Estimated cost, $2,000,000.

Calif., Oak Park—Joseph E. Tempest, Engineering Dept., will prepare plans for six miles of sewers.

Calif., Santa Monica—(Official)—Election will be held Dec. 7 to vote on $250,000 bonds for storm sewer system. Noted Oct. 28.

Calif., Stockton—City Engineer estimates cost of sewers in Homestead, Kidd's, Mark's, Lane's and Sunset Addition and Vischer Tract at $32,844.

N. B., St. John—Extension of water and sewage mains on Portland Pl. recommended by R. W. Wigmore, Comr.

Ont., Ottawa—Bids will be received some time in January for supply of catch basin covers. Estimated cost, $10,000. F. C. Askwith, Engr.

Man., Beverly—City plans to improve sewage system and sewage disposal plant. Estimated cost, $15,000.

Bids In and Contracts Awarded

Mass., Bridgewater—John E. Palmer, Old South Bldg., Boston, at about $6,000 submitted lowest bid for sewer system. Noted Nov. 4.

R. I., Woonsocket—(Official)—Brien & Bonvier, Woonsocket, at $4,715, submitted lowest bid for surface water drain in Carrington Ave. and Maple St. Noted Oct. 28.

N. Y., Greenwich—(Official)—John D. Dower, Ballston Spa, at $4,237, submitted lowest bid for sewers in Elm Ave., Main and Bridge St. Noted Oct. 28.

N. Y., Hudson—Contract for sewer system at Fair Ground Blvd. awarded to GREEN-STAR ENGINEERING CO., Philadelphia, Penn.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received Nov. 5 for tunnel relief sewer in West 46th St. were as follows: Frazer & Burchenal, 80 Malden Lane, $259,013; Battery Engineering and Construction Co., 17 Battery Pl., $292,438; James O'Leary, $283,872. Noted Oct. 21.

N. J., Atlantic Highlands—(Official)—Contract for 2½ miles of 8- to 19-in. sewer awarded to R. W. SMITH CORPORATION, 30 Church St., New York, N. Y., at $15,401. Noted Oct. 28.

N. J., Hightstown—Contract for six car loads of 8-in. sewer pipe awarded to SHANGLE & HUNT; contract for installing same awarded to MARTIN NOLAN, A. P. DEVLIN and DAVID EXCEL.

Md., Baltimore—Thomas Mullen, 3002 Greenmount Ave., Baltimore, submitted lowest bid for lateral sewers under Contract No. 163. Calvin W. Hendrick, 904 American Bldg., Ch. Engr. Sewage Comn.

Ohio, Cincinnati—Contract for sewer in Culvert St. awarded to THURBER & BROWNING CO., Cincinnati, at $6,861.

Ohio, Kent—WILLIAM HUNT & SONS Co., Akron, at $11,555, awarded contract for trunk sewer.

Ohio, Mansfield—Carl Weiss, Peru, Ind., at $6,667, submitted low bid for trunk line sewer in District No. 1.

Ohio, Mansfield—Bids were received Oct. 22 for improving sanitary sewage disposal plant as follows: Ohio Valley Construction Co., $74,055; David Lowensohn, $79,218; L. Wideson, $81,080.

Ind., Muncie—Contract for sewer in Main St. from Lincoln St. to within 15-ft. of Macedonia Ave. and sewer in Seymour St. from Vine St. to within 20-ft. of Hackley St. awarded to WILLIAM M. BIRCH CO.

Ill., Chicago—Bids received Oct. 2 for Calumet-Sag channel for Sanitary District from James O. Heyworth, at $720,171 for Contract No. 13, A. Guthrie & Co., at $828,823 for Contract No. 14. Noted Oct. 7.

Wis., Appleton—Contract for Atlantic St. trunk sewer awarded to C. R. MEYER & SON CO., Oshkosh, at $20,252.

Wis., Appleton—Contract for segmental block sewer awarded to WEGENBURG & BLAKE, Appleton, at $29,915.

Wis., Fond du Lac—Contract for sewers in Washington, Morris, Ruggles, West Cotton and East St. awarded to A. KRUEGER, Fond du Lac. Noted Oct. 21.

Iowa, Algona—(Official)—Contract for sewers in various streets awarded to MOORE-SIEG CONSTRUCTION CO., Waterloo, at $17,416. Noted Sept. 30 and Oct. 14.

Iowa, Elliott—Contract for sanitary sewers awarded to WILLIAM S. DOLL, Omaha, Neb., at $5,744. Noted Oct. 14.

Iowa, Jefferson—Contract for laying tile and sewer pipe, catch basins, etc., awarded to DE LONG CONSTRUCTION CO., Terrill, at $55,206.

Iowa, Ogden—Contract for sewer system awarded to A. DOBSON CO., Lincoln, Neb., at $37,909.

Iowa, Ogden—ZITTEREL & SULLIVAN, Webster City, at $10,000, awarded contract for sewage disposal plant.

Kan., Atchison—Contract for sewer at State Soldiers' Orphans' Home awarded to INTER-MOUNTAIN BRIDGE CO., Tecumseh, Neb., at $5,986.

N. D., Grand Forks—(Official)—Contract for lateral sewer No. 16 and 17, District 5, awarded to GRAND FORKS CONCRETE CO., Grand Forks.

Mo. St., Joseph—Contract for sewers in District No. 27 awarded to E. F. MIGNERY.

Ark., Heber Springs—Contract for sewer system awarded to INLAND CONSTRUCTION CO., Chandler, Okla., at $33,000. Noted Sept. 2.

Tex., Beaumont—Contract awarded to H. W. CARDWELL CONSTRUCTION CO., Texarkana, at $21,717 for sanitary sewers.

Tex., Beeville—Contract for sewer system awarded to EUGENE CAMPBELL, Ft. Worth, 25,670 lin.ft. of pipe to SAN ANTONIO TEXAS CO. Estimated cost, $15,000.

Tex., Dallas—City Commissioners rejected all bids for sanitary sewer main between Zang's Blvd. and Winnetka Ave. in Oak Cliff.

Idaho, Idaho Falls—(Official)—Oren & Lindstrum, Butte, Mont., at $17,600, low bidder for 16,000-ft. of 8- 12- and 15-in. vitrified sanitary pipe sewers.

Utah, Ogden—Contract for sewer in District No. 128 awarded to J. P. O'NEIL CONSTRUCTION CO., at $5,740.

Wash., Seattle—D. Parisi Co., 1506 16th Ave., Seattle, at $9,531, submitted lowest bid for sewers in North and West 49th St.

Ore., Enterprise—Contract for lateral sewers awarded to JAMES KENNEDY, Portland, at $18,652. Noted Aug. 12.

Calif., Daly City—Contract for sewer work awarded to W. J. TOBIN, at about $5,000.

Calif., Sausalito—(Official)—Contract for sewer work in District F awarded to HEAFEY & TOBIN, 735 Filbert St., Oakland, at $11,026. Leonard R. Hohl, Town Engr. Noted Aug. 12.

Que., St. Agathe-des-Monts—(Official)—L. Beauchamp, at $12,500, submitted lowest bid for sewer system and sewage-disposal plant.

Man., The Narrows—See item under "Water Works."

GARBAGE

Proposed Work

Kan., Wichita—R. A. Branson contemplates building two-story, 25x60-ft. dessicating plant. Estimated cost, $10,000.

Neb., Lincoln—City contemplates $10,000 bond issue for garbage disposal plant.

Bids In and Contracts Awarded

Penn., Philadelphia—Morris L. Cooke, Dir. of Pub. Wks., received following bids for collection and disposal of garbage for 1916, District No. 1—A. J. A. Mullen, $39,700; District No. 1-B, James Irwin, $121,800; District No. 2, Edwin H. Vare, $255,000; District No. 3, Edwin H. Vare, $310,000; District No. 4-A, Howard D. Ruch, $125,000; District No. 4-B, Thomas L. Flannagan, $9,600; District No. 5, J. D. Dorney, $157,800; District No. 6, Estate of D. McMahon ,$157,900. Collection of rubbish and ashes as follows: District No. 1-A, James A. Mullen, $44,900; District No. 1-B, James Irwin, $55,800; District Nos. 2 and 3, Edwin H. Vare, $80,000 and $90,000, respectively; District No. 4-A, Frank Curran, $65,000; District No. 4-B, Thomas L. Flannagan, $77,800; District No. 5, Frank Curran, $63,780; District No. 6, Estate of D. McMahon, $97,850.

Ga., Augusta—Contract for garbage incinerator awarded to T. O. BROWN & SON. Estimated cost, $10,000.

Ohio, Akron—(Official)—Contract for removal of garbage to Akron garbage disposal plant awarded to CHARLES H. WATTERS, at $3.12 per ton. Noted Oct. 21.

Mich., Ishpeming—(Official)—Contract for garbage incinerator awarded to McGUIRE HUNTER INCINERATOR CO., at $8,885. Noted Oct. 14.

Wash., Seattle—Seattle Cedar Lumber Mfg., Ballard, awarded contract to SEATTLE BOILER WORKS for incinerator.

STREETS AND ROADS

Proposed Work

Mass., Boston—(Dorchester)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Fernboro St. from Lawrence Ave. to Intervale St., Dorchester.

Mass., Boston—(Dorchester)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Mendon Park from Upland Ave. to Bourneside St. and in Harwood St. from Willowwood to Lucerne St., Dorchester.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Kittredge St. from Cornell to Beech St., West Roxbury.

Mass., Brighton—City plans to improve North Beacon St. between Cambridge and Market St. Estimated cost, $63,000.

R. I., Narragansett Pier—Town appropriated $5,000 for macadamizing South Pier Rd.

Conn., Manchester—Plans being considered for improving Main St. Estimated cost, $15,000.

N. Y., Buffalo—City plans to pave Evelyn Ave. and Galveston Pl. and repave East North St.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 16, for furnishing and delivering 2,500 cu.yd. of grits and repairing asphalt-block pavement and setting curb on various streets of the borough.

N. Y., New York—(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Borough Pres., Borough Hall, Fifth St. and Jackson Ave., Long Island City, until 11 a.m., Nov. 18, for furnishing and delivering to Bureau of Highways 3,000 cu.yd. of broken stone and screenings of trap rock and improving a number of streets and avenues of the borough.

N. J., Bloomfield—Bids will be received by R. F. Davis, Town Clk., until 8 p.m., Nov. 15, for 12,000 lin.ft. of 5-in. by 16-in. bluestone curb and 6,000 lin.ft. combination curb and gutter.

Penn., Pittsburgh—City will pave Susquehanna St. and Neuman Way.

Del., Wilmington—Bids will be received by James Wilson, State Highway Comr., for Newcastle County, Church Bldg., until noon, Nov. 16, for improving Philadelphia Turnpike.

Md., Baltimore—Report submitted to Board of Estimate to improve Gwynn's Falls Parkway from Gwynn's Falls Park to Druid Hill Park estimating cost of same at $500,000. John H. Robinette, Pres., Bd. of Comrs.

Va., Jonesville—Bonds for $15,000 for road construction voted by citizens of Lee County, Rose Hill District.

Va., Richmond—Northwide Blvd. from Chamberlayne Ave. through Roland Park, Battery Court, North Richmond and Barton Heights, will be constructed by city.

W. Va., Charleston—Bids will be received for paving about 15 streets of the city with bituminous concrete. J. M. Clark, City Engr.

W. Va., Charleston—Bids will be received by L. C. Massey, Clk. of Kanawha County, until 11 a.m., Nov. 17, for 1½ miles of brick, macadam or concrete pavement in London and Pokla District.

S. C., Anderson—City will pave East Market and East Earl St. from McDuffie to Main St.

Ga., Atlanta—City plans to pave Grant Ave. from Georgia to Glenwood Ave. with wood block.

Fla., Eustis—Plans being prepared by Isham Randolph Co., Engr., Chicago, Ill., for clay base road with penetration and sand asphalt top. Estimated cost, $80,000.

Fla., Ft. Lauderdale—Election to vote on $165,000 bonds for roads contemplated by Broward County Commissioners.

Fla., Kissimmee—Election to vote on $250,000 bonds for road construction contemplated by Commissioners of Osceola County.

Fla., Pinellas Park—City plans to improve 33d St. from Sixth to 12th Ave., Park Blvd. from 39th to 22d St. and 22d St. Blvd. to north town limit by grading, curbing and paving. C. M. de Champ, Engr.

Fla., Wauchula—(Official)—Bids will be received by City Clerk until Dec. 6 for approximately 13 miles of sidewalks. Estimated cost from $20,000 to $30,000. Noted Oct. 21.

Fla., West Palm Beach—Sidewalks on Clematis, Rosemary, Olive, Banyan and Datura St. will be paved by city.

Miss., Pass Christian—Election will soon be held to vote on $100,000 bonds for paving, water works and city hall. X. A. Kramer, Magnolia, Engr.

La., Bunkie—Gravel road from Bunkie to Morrow, about 20 miles, contemplated. Bunkie Business League interested.

La., Franklin—Main St. will be improved at an estimated cost of $17,000.

Tenn., Livingston—Citizens defeated $160,000 bonds for road work. Noted Aug. 19 and Sept. 23.

Tenn., Lonsdale—(Knoxville post office)—Citizens voted $20,000 bonds for paving. Noted Oct. 7.

Ky., Lexington—See item under "Sewers."

Ohio, Cincinnati—Report submitted estimating cost of improving Warner St. from McMicken to Fairview Ave. at $6,000.

Ohio, Cincinnati—Bids will be received by Board of Commissioners of Hamilton County until noon, Nov. 19, for improving Summit Ave. from canal to Reading pike in Springfield and Sycamore Townships.

Ohio, Pomeroy—Bids will soon be received for paving Mechanic St. with brick, about ¼ of mile.

Ohio, Youngstown—Sidewalks will be constructed on Lennox Ave., Sheridan Rd. and Kent St.

Ohio, Zanesville—(Official)—Citizens defeated $22,250 bonds for paving. Noted Oct. 14 and 28.

Ind., Brazil—Bids will be received by W. O. Graeser, Audr., Comrs. of Clay County, until 10:30 a.m., Dec. 7, for two roads in Harrison Township.

Ind., Kentland—Bids will be received by S. R. Sizelove, Audr., Comrs. of Newton County, until 2 p.m., Dec. 6, for macadam road in McClellan Township.

Ind., New Albany—Bids will be received until 10 a.m., Nov. 24, by Commissioners of Floyd County, for road in New Albany Township.

Ind., Rensselaer—Bids will be received by J. P. Hammond, Audr., Comrs. of Jasper County, until 2 p.m., Dec. 7, for stone road in Walker Township.

Ind., Tipton—Bids will be received by Commissioners of Tipton County until Dec. 6 for constructing gravel roads in Madison and Cicero Townships.

Mich., Baldwin—City will hold election in April to vote on $10,000 bonds for road construction.

Mich., Flint—Bonds for $100,000 for road construction voted by Supervisors of Genessee County.

Mich., Marshall—Bonds for $124,000 appropriated by County Commissioners for road construction.

Mich., Mason—Appropriation of $115,000 for road construction made by County Supervisors.

Ill., Quincy—Bids will soon be received for paving 14th St. from Broadway to State St. F. L. Hancock, City Hall, Engr.

Kan., Larned—Plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for 25 blocks of vitrified fiber brick pavement on concrete base. L. E. Burgess, City Clk. Noted Sept. 23.

Kan., Ottawa—An ordinance passed to pave a portion of First St. with brick on concrete base.

Neb., Grand Island—Citizens plan to pave several portions of Paving District No. 17.

Neb., Lincoln—Bids will be received by H. E. Wells, Clk., Lancaster County, until Nov. 15, for construction of paving District No. 9. Noted Oct. 7.

Mo., Higginsville—(Official)—We have been informed that city will not pave any streets this year as stated in our issue of Oct. 28.

Mo., Sedalia—Bids will be received by F. T. Leaming, City Engr., until Dec. 6, for 9,200 sq.yd. of vertical fiber brick paving. Noted Oct. 21.

Ark., Marshall—Construction of 14 miles of road in mining district contemplated by Searcy County Improvement District.

Tex., Austin—Bids will be received by P. W. Powell, Comr. of Sts., until Nov. 19, for paving a number of streets and constructing storm sewers. Estimated cost, $330,640.

Tex., Batesville—Bonds for $15,000 will be sold for road improvements in Zavalla County. Noted Oct. 21 and 28.

Tex., El Paso—City plans to pave Prospect St. from Upson Ave. to West Blvd. Estimated cost, $15,430.

Okla., Bristow—Election will be held Nov. 16 to vote on $25,000 bonds for good roads.

Okla., Catoosa—Election will soon be held to vote on $18,000 bonds for road construction.

Okla., Chelsea—Election will soon be held to vote on $50,000 bonds for road construction.

Okla., Claremore—Election will be held in Oowala Township to vote on $30,000 bonds for constructing roads.

Okla., Collinsville—Election will soon be held to vote on $30,000 bonds for constructing roads.

Okla., Foyil—Citizens plan to hold election to vote on $25,000 bonds for road construction.

Okla., Idabel—Election will be held Nov. 13 to vote on $24,000 bonds for roads in Sulphur Township.

Okla., Muskogee—Bids will be received about Dec. 1 for road improvements in Muskogee County. Estimated cost, $10,000. J. P. Clonts, County Engr.

Okla., Oologah—Citizens will hold election to vote on $20,000 bonds for road construction.

Okla., Sapulpa—Election will soon be held in Creek County, Newby Township, to vote on $20,000 bonds for roads.

Okla., Talala—Election will soon be held to vote on $20,000 bonds for constructing roads.

Okla., Tulsa—City will pave 15th St. from Hudson to Robinson Ave., 14th St. from Broadway to Stiles Ave., Harvey Ave. from 14th to 15th St. and alley east of University Station.

Okla., Verdigris—Citizens will vote on $50,000 bonds for road construction.

Colo., Denver—Contract will soon be awarded for paving alley 41 in Park Hill. Estimated cost, $12,068.

Colo., Denver—Contract will be awarded some time next year for 300,000 sq.yd. of smelter slag surfacing. Estimated cost, $125,000.

Colo., Denver—State Highway Commission and Department of Parks contemplate one mile of paved road on West Colfax Ave. from city limits in direction of mountain Park system.

Colo., Denver—Commissioner of Improvements is considering estimates for 20,000 yd. of asphaltic concrete pavement on a 5-in. concrete base for West Colfax Ave. from Zuni St. west across Platte River to Irving St.

Colo., Estes Park—Residents have asked Congress for an appropriation of $125,000 for development of roads and trails in Rocky Mountain National Park.

Idaho, Cottonwood—(Official)—Citizens defeated bonds for paving main business streets of city. E. L. Parker, Chn., Bd. of Trustees. Noted Sept. 9 and 30.

Ariz., Globe—Election will be held Nov. 15 in Gila County to vote on $100,000 bonds for roads.

Ariz., Nogales—(Official)—Citizens voted $150,000 bonds for highways in Santa Cruz County. Noted Oct. 7.

Ariz., Tucson—Citizens voted $400,000 bonds for roads. Noted Sept. 30.

Calif., Fresno—City Trustees plan to pave Ventura Ave.

Calif., Los Angeles—City plans to pave Ord St. from North Broadway to Castelar St.

Calif., San Francisco—Board of Works plans to pave 20th Ave. and Noe St. Estimated cost, $21,445.

Calif., San Gabriel—Bids will be received by I. H. Stouffer, City Clk., until Nov. 16, for improving a portion of Las Tunas Drive.

Ont., Kingston—Bids will soon be received by City Council for paving University Ave. W. W. Sands, Clk.

Ont., Pembroke—Town Council contemplates construction of macadam roadway. Estimated cost, $4,000.

Ont., Sudbury—Town Council plans an expenditure of $4,000 for sidewalks. W. J. Ross, Clk.

Bids In and Contracts Awarded

Mass., Boston—Bids were received Oct. 29 for paving Jones Ave. as follows: James Doherty, 133 Calumet St., Roxbury, asphalt, $8,631, bitulithic, $8,659; C. J. Jacobs Co., 107 Terrace St., Roxbury, asphalt, $8,822, bitulithic, $8,650; Central Construction Co., 6 Beacon St., Boston, asphalt, $8,914.

Conn., North Haven—Contract for 20,800 yd. of bituminous concrete pavement awarded to UNION PAVING CO. and LANE CO.

N. Y., Albany—(Official)—Contracts awarded for constructing highways by State Aid as follows: Road No. 1279, Albany County, 3.41 miles: Award held; Road No. 5,532, Allegany County, 5.25 miles: KENNEDY CONSTRUCTION CO., Albany, $50,881; Road No. 1327, Cayuga County, 6.06 miles: JOHN H. GORDON, Albany, $52,011; Road No. 5594, Clinton County, 3.79 miles: BLUFF POINT STONE CO. INC., Plattsburg, $29,160; Road No. 1331, Columbia County, 4.27 miles: RUSSO-PARKER CONSTRUCTION CO., Hudson, $39,756; Road No. 1332, Columbia County, 7.77 miles: MARKS KEARNEY, Hudson, $62,186; Road No. 5595, Cortland County, 3.65 miles: T. H. GILL CO., Binghamton, $39,759; Road No. 133, Erie County, 0.14 mile: Award held; Road No. 1334, Erie County, 4.30 miles: LANGAN CONSTRUCTION CO., Albany, $70,049; Road No. 3135, Erie County, 4.50 miles: Award held; Road No. 1336, Erie County, 5.19 miles: Award held; Road No. 5582, Genesee County, 4.53 miles: CHILSON & GIBSON, Leroy, $44,893; Road No. 5593, Livingston County, 7.69 miles: JAMES ANDERSON, Albany, $63,063; Road No. 1110, Madison County, 3.05 miles; MOHAWK ENGINEERING CO., Mohawk, $26,151; Road No. 1328, Monroe County, 0.73 mile: WHITMORE-RAUBER & VICINIUS, Rochester, $12,927; Road No. 1327, Monroe County, 2.91 miles: RIBSTINE-HOLTER CO. INC., Rochester, $35,548; Road No. 5547, Oneida County, 0.70 mile: LANGAN CONSTRUCTION CO., Albany, $17,187; Road No. 5247-A, Onondaga County, 0.18 mile: M. J. GLEASON & CO., Syracuse, $2175; Road No. 448, Orange County, 3.64 miles: ARMSTRONG & TROWBRIDGE, Middletown, $29,368; Road No. 449, Orange County, 3.17 miles: ARMSTRONG & TROWBRIDGE, Middletown, $21,399; Road No. 1329, Orange County, 3.70 miles: Award held; Road No. 5591, Orange County, 0.38 mile: SCHUNEMUNK CONSTRUCTION CO., Highland Mills, $3072; Road No. 5545, Schenectady County, 5.62 miles: Award held; Road No. 5589, Seneca County, 5.01 miles: GREENFIELD CONSTRUCTION CO., Hornell, $43,719; Road No. 5510-A, Sullivan County, 0.43 mile: HENRY McNAMEE, Eddyville, $7,947; Road No. 1079, Tioga County, 4.07 miles: PETER F. CONNOLLY CO., Horseheads, $30,603; Road No. 1330, Tompkins County, 2.48 miles: GREENFILE CONSTRUCTION CO., Hornell, $26,447; Road No. 603, Ulster County, 10.24 miles; ARMSTRONG & TROWBRIDGE, Middletown, $82,935. Noted Oct. 14 and Nov. 4.

N. Y., Buffalo—Contract for paving Skillen St. awarded to HENRY P. BURGARD CO., at $10,875.

N. Y., Middletown—Contract for paving Mill St. awarded to ABNER M. HARPER CO., Newburgh, at $4,100.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contracts for regulating and repaving Bridge St. from Sands to Nassau St., awarded to CHARLES A. MYERS CONTRACTING CO., at $6,804; regulating, grading, curbing and laying sidewalks on Ditmas Ave. to M. F. MAHER, at $9,932. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Contracts for paving awarded as follows: Arden St. to ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., New York, at $5,934; 161st St. to AZTEC ASPHALT CO., 90 West St., New York, at $6,264; Front St., to W. J. FITZGERALD, 547 West 45th St., at $34,838. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received Nov. 5 for regulating and repaving (a) West side of Broadway from curb to rail from north side of 108th St. to north side of 110th St., (b) Sixth Ave. from Eighth Ave. to 19th St., Greenwich Ave. from Sixth Ave. to north of Perry St., West 10th St. from Greenwich to Sixth Ave., (c) 25th St. from Sixth to Seventh Ave., (d) 72d St. from Central Park West to Columbus Ave., (e) 78th St. from First to Third Ave., of 95th and 96th St. from Broadway to Amsterdam Ave. were as follows: (a) Asphalt Construction Co., Madison Ave. and 137th St., $5,189; (b) Aztec Asphalt Co., 90 West St., $52,151; (c) Sicilian Asphalt Paving Co., 41 Park Row, $5,277; (d) Aztec Asphalt Co., $10,655; (e) Sicilian Asphalt Paving Co., $11,060; (f) Barber Asphalt Paving Co., Woolworth Bldg., $6,439. Noted Oct. 28.

N. J., New Brunswick—Contract for improving Amboy Rd. from city line at Spa Springs to Myrtle Ave. awarded to THOMAS F. DUNIGAN, Woodbridge, at $29,148. Noted Nov. 4.

N. J., New Brunswick—Contract for 10,000 sq.yd. of appianite pavement on Raritan Ave. awarded to FRANKLIN CONSTRUCTION CO., New York, N. Y.

N. J., Plainfield—(Official)—Bids were received Nov. 1 by Common Council for improving Sherman and Fillmore Ave. and East Fourth St. from Burke & Bonham, at $4,037 and Mobus Bros., at $4,142.

Penn., Greensburg—Contract for Scottdale-Tyrone Mills Rd. awarded to SAMUEL HOLMES, Scottdale, at $19,958. Noted Oct. 7.

Penn., Greensburg—Bids were received Oct. 28 for Jeanette-Grapeville Rd. as follows: L. Edwards, Greensburg, $21,123; McCrady Bros., Braddock, $21,601; Ridge Bros., Pittsburgh, $22,071. Noted Oct. 7.

Penn., Philadelphia—UNION PAVING CO., 112 North Broad St., awarded contract for paving Jasper St. at $16,978.

Penn., Pittsburgh—(Official)—Contracts for paving awarded as follows: Clinton and Frankfort Rd. to D. W. CHALLIS & SONS, at $34,667; Beatty Rd. to R. H. CUNNINGHAM & SONS, INC., at $48,736. Noted Oct. 28.

Md., Baltimore—Contract for paving State, Trenton and Mace St. and Breindenbaugh and Stable Alley awarded to GEORGE LONG CONTRACTING CO., at $6,438.

Md., Baltimore—Contract for paving portions of Balderson, Water, Grant and Mercer St. awarded to BALTIMORE ASPHALT BLOCK AND TILE CO., at $5,231. Noted Oct. 14.

Md., Baltimore—Contract for grading main and upper portions of Ellicott Driveway awarded to F. B. BEASMAN CO., 7 Clay St., Baltimore, at $21,015. Noted Oct. 7 and 14.

N. C., Gastonia—Contract for 50,000 sq.yd. asphalt paving awarded to NOLL CONSTRUCTION CO., Chattanooga, Tenn.

Fla., Ft. Pierce — Contract for hardsurfacing Fellsmere-Sebastian Rd. awarded to H. R. SLOANE, Sebastian Rd., at about $6,000. Noted Oct. 28.

Ohio, Findlay—(Official)—C. B. Hall & Son, Findlay, at $5,495, submitted lowest bid for paving East Sandusky St. with brick.

Ohio, Independence—(Official)—Contract will be awarded about Nov. 27 for sidewalks on Brecksville Rd. Bonds for $9,500 sold for this purpose. Noted Oct. 14.

Ind., Evansville—(Official)—Contract for macadam road in Pigeon Township awarded to TRAYLOR & KREMPP, Jasper, at $7,848. Noted Oct. 28.

Ind., Fowler—(Official) — Contract for road in Balboa Township awarded to A. E. GRAY, Goodland, at $8,967. Noted Oct. 28.

Ind., Greencastle—(Official)—Contract for macadam road in Greencastle Township awarded to EARL HURST, Cloverdale, at $13,000. Noted Oct. 28.

Ind., Logansport—(Official)—Contract for paving awarded to ANDREWS ASPHALT PAVING CO., Hamilton, Ohio, at $100,228. Noted Sept. 16 and 30.

Ind., Plymouth—(Official)—Contract for three roads in German Township awarded to FRANK BALLINGE, Donaldson, at $10,660. Noted Oct. 28.

Ind., Shelbyville—(Official)—Contract for two roads in Washington Township awarded to HARVEY OLDMAN, Edenburg, at $5,570, and MOBERLY & CO., Shelbyville, at $3,148. Noted Oct. 28.

Ind., South Bend—Contract for paving Leeper Ave. from Howard to Angella Ave. awarded to HARRY N. BARNES, at $12,437.

Ill., Joliet—Contract for paving Jefferson St. between Eastern Ave. and Herkimer St. with bituminous macadam awarded to R. F. CONWAY CO., 133 West Washington St., Chicago.

Wis., Tomah—Contract for vitrified brick paving awarded to GEORGE R. KEACHIE CO., Madison, at about $15,000. Noted Oct. 14.

Kan., Columbus—(Official)—Contract for grading and surfacing with gravel seven miles of county road between Columbus and Crestline awarded to W. HUNTSINGER, Columbus, at about $6,000. Noted Oct. 21.

Kan., Independence — Contract for paving awarded to GREEN & CULLEN, at $33,422.

Mo., Kansas City—Contract for grading a portion of Meyer Blvd. awarded to McMILLAN CONSTRUCTION CO., Chicago, Ill., at $86,000. Noted Sept. 6 and Oct. 14.

Mo., St. Louis—Contract for improving Marcus Ave. awarded to SHRAINKA CONSTRUCTION CO., at $7,684.

Tex., Beaumont — Contract for paving various streets awarded to UVALDE ROCK ASPHALT CO., Beaumont, Tex. Estimated cost, $275,000.

Tex., Bryan—Contract for road construction in District No. 1 awarded to ALNEY AND McCORMICK, Houston. Estimated cost, $20,000.

Tex., Dallas—Contract for paving awarded to LEVY & LEVY, Muskogee, Okla., at about $50,000.

Tex., Houston—Contract for paving Creston Ave. awarded to EUREKA PAVING CO., Houston, at $6,000.

Colo., Denver—Contract for paving alley 36 awarded to A. F. HEWITT, at $12,859.

Colo., Denver—Contract for paving alley 37 in Country Club District awarded to G. W. STARK, at $13,802.

Utah, Salt Lake City—P. J. MORAN, 152 North Second St., at $15,860, awarded contract for paving.

Wash., Bremerton—Contract for concrete walks and permanent gutters on Burwell Ave. awarded to L. L. KENT, at $6,356.

Wash., Colville—(Official)—Contract for improving three miles of Springdale-Hunters Permanent Highway No. 2-A awarded to SPOKANE ASPHALT MACADAM AND PAVING CO., Spokane, at $10,000. Noted Oct. 21.

Wash., Everett—Contract for improving Harrison Ave. awarded to ERVIG & HAUGH, Everett, at $7,951.

Wash., Pomeroy—(Official)—Contract for improving portion of Permanent Highway No. 1 awarded to TRIBOU & BLACKMAN, Walla Walla, at $9,249. Noted Oct. 21.

Wash., Stevenson—(Official)—Contract for nine miles of Stevenson-Carson Rd. awarded to J. M. AMBROSE, 22-23 Bates Dock Bldg., Portland, Ore., at $48,000. Noted Sept. 23 and Oct. 21.

Calif., Riverside—Bids were received for 11 miles of roadway on Route No. 18 as follows: B. R. Davison Construction Co., Monrovia, concrete, $45,096; macadam, $52,825; Johnson-Shea Co., Riverside, concrete, $42,489; macadam, $56,889.

Calif., Riverside—Contract for 10 miles of Moreno Rd. awarded to CONNER CONSTRUCTION CO., at $61,825.

Calif., San José—(Official)—Contract for improving Lincoln Ave. in Supervisorial District No. 4 awarded to RAISCH IMPROVEMENT CO., Crocker Bldg., San Francisco, at $14,340. Noted Oct. 21.

Calif., Santa Barbara—(Official)—Contract for paving Booths Point Rd. awarded to F. R. RITCHIE & CO., San Francisco, at $15,475. Noted Oct. 7.

INDUSTRIAL WORKS

Proposed Work

Conn., Hartford—Swift & Co. contemplates building three-story addition to refrigerating plant. Estimated cost, $[illegible],000.

Conn., Waterbury—Waterbury Tool Co. will build one-story, 220x212-ft. machine shop in Browns Meadow.

N. Y., Albany—Plans being prepared for one-story, 125x200-ft. addition to factory of Modern Machine and Tool [illegible].

N. Y., New York—(Borough of Brooklyn)—Plans prepared for three-story, 200x320-ft. factory at 43d St. and First Ave., for E. W. Bliss Co. Estimated cost, $175,000.

N. Y., New York—(Borough of Brooklyn)—Plans prepared for two-story, 110x200-ft. brick machine shop on 23[illegible] St. for Empire Repair and Electric Welding Co., 42 Whitehall St., New York.

N. Y., New York—(Borough of Brooklyn)—(Official)—Linde Air Products Co., 30 East 42d St., plans one-story, 72x100-ft. brick factory at Driggs Ave. Estimated cost, $16,500.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared by Francisco Jacobus, Arch., 200 Fifth Ave., for eight-story 98x100-ft. factory at 25th St. and Tenth Ave., for Marginal Realty Co. Estimated cost, $150,000.

N. Y., New York—(Borough of Manhattan)—(Official)—J. B. Snooks' Sons, Arch., 261 Broadway, preparing plans for 10-story, cold storage plant at 10th Ave., Marginal, 16th and 17th St., for Merchants Refrigerating Co., 7 Harrison St. Estimated cost, $1,000,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared by J. S. Maher, Arch., 431 West 14th St., for alteration to factory of Miller Estate. Estimated cost, $25,000.

N. Y., Poughkeepsie—Plans being prepared for four-story, 75x350-ft. factory for Victor Typewriter Co. John J. Petit, 103 Park Ave., N. Y., Arch.

N. Y., Troy—(Official)—Westinghouse, Church, Kerr & Co., Arch., N. Y., preparing plans for eight-story, 70x100-ft. factory for Cluett Peabody Co., Inc. Estimated cost, $2,000,000. Noted Oct. 28.

N. Y., Utica—Heron Mfg. Co. contemplates two-story addition to plant. Estimated cost, $100,000.

N. J., Newark—Plans being prepared for five-story factory on High St. for Splitdorf Electrical Co., 98 Warren St.

Penn., McKeesport—American Sheet Steel Co. will enlarge W. Dewees wood plant. Estimated cost between $125,000 and $150,000.

Penn., McKeesport—McKeesport Tinplate Co. will build addition to plant.

Penn., New Kensington—Plans being prepared by W. G. Wilkins Co., Westinghouse Bldg., Pittsburgh, for brick and steel factory for National Lead and Oil Co. Estimated cost, $100,000.

Penn., Philadelphia—(Official)—Bids will be received about Dec. 1 for four-story, 54x100-ft. factory for M. Rice & Co. Noted Nov. 4.

Penn., Philadelphia—Plans prepared by William Steele & Sons Co., 16th St. and Archer St., for five-story, 16x243-ft. reinforced-concrete building at Westmoreland and Masther St. for Philadelphia Tapestry Mills. Estimated cost, $120,000.

Penn., Pittsburgh—Plans being prepared by V. Wyss-Thalman, Arch., 5113 Jenkins Arcade, for two-story, 84x136-ft. warehouse for Liquid Fuel Combustion Co. Noted Sept. 30.

Md., Baltimore—Baltimore Car and Foundry Co., Curtis Bay, Md., will build 273x1,200-ft. addition. Estimated cost, $500,000.

W. Va., Huntington—Huntington Tobacco Warehouse Co. will build 160x160-ft. wood and concrete warehouse.

W. Va., Moundsville—U. S. Stamping Co., Wheeling, contemplates building addition to plant at Moundsville.

W. Va., Wheeling—LaBelle Iron Works will build coke plant. Estimated cost, $2,000,000.

Ga., Gainesville—H. Clark, Bowersville, contemplates knitting mill. Estimated cost, $25,000.

Ala., Birmingham—Harris Transfer and Warehouse Co. contemplates building five-story reinforced-concrete warehouse. Estimated cost, $50,000.

Ky., Ashland—Norton Iron Works estimates cost of proposed bi-product plant between $200,000 and $500,000. Noted Oct. 28.

Ky., Owensboro—Hull Pump and Tank Co. contemplates building plant.

Ohio, Canton—The Universal Mfg. Co. will build a plant. Frederick G. Grant is interested.

Ohio, Cincinnati—(Hyde Park)—Hyde Park Lumber Co. will build brick warehouse. Estimated cost $10,000.

Ohio, Cincinnati—Joseph G. Steinkamp & Bros., Arch., preparing plans for garage at Fifth St. and Sycamore St. for Frank Fox. Estimated cost, $40,000.

Ohio, Cleveland—Plans prepared by Multon & TaTylor, Hippodrome Bldg., for eight story, 211x330-ft. and 71x222-ft. warehouse for Home Financing Co. Estimated cost, $500,000.

Ohio, Cleveland—American Steel and Wire Co. will build addition.

Ohio, Dayton—Plans being prepared for addition to plant of Maxwell Motor Car Co.

Ohio, Dayton—Plans being prepared by Thies & Thies, Davis Bldg., for three story brick and steel addition to plant of Ohio Metal Products Co., 39 Edgar St.

Ohio, East Liverpool—National Drawn Steel Co. contemplates building addition to plant.

Ind., Brazil—Plans prepared for addition to plant of Wood Turret Machine Co.

Ind., La Fayette—A. J. Fogarty, Michigan City, interested in building of twine factory. Estimated cost, $35,000.

Ill., Chicago—J. Ogden Armour purchased site in Broad St. and will build garage.

Ill., Chicago—Cadillac Automobile Co., 2301 South Michigan Ave., purchased site at Indiana Ave. and 23d St. and will build eight-story building. Estimated cost, $200,000.

Ill., Chicago—Plans prepared by Postle & Fisher, Arch., 140 South Dearborn St., for one-story, 209x480-ft. factory at 2000 South Jefferson St., for Western Shade Cloth Co. Estimated cost, $75,000. Noted Oct. 21.

Ill., Springfield—Western Cartridge Co., East Alton, Ill., will build plant at Springfield.

Wis., Madison—Co-Operative Packing Co. will build packing plant. Estimated cost, $200,000.

Wis., Manitowoc—Plans being prepared by Earl F. Miller, Arch., Dempsey Bldg., for 55x300-ft., five-story, brick and steel factory for Aluminum Goods Manufacturing Co.

Wis., Milwaukee—Schlitz Candy Co. will build factory. Leonard Schlitz interested.

Wis., New Richmond—Intercounty Packing Co. contemplates building plant. Estimated cost, $100,000. T. J. Davis, Pres.

Minn., Minneapolis—Maples Steel and Machine Co. will build one-story, 140x365-ft. factory. Estimated cost, $60,000.

Minn., Minneapolis—Western States Coke Co. plans factory at Marshall St. and Northern Pacific right-of-way.

Minn., Minneapolis—Janney, Semple Hill & Co., First Ave. S. and Second Ave., will build addition to warehouse on First St. and Third Ave. Estimated cost, $200,000.

Minn., Minneapolis—Kronick Cleaning Co., 1213 Hennepin Ave., will build two-story reinforced-concrete store and dry cleaning building. Estimated cost, $45,000.

Minn., Minneapolis—Minnesota Motor Car Co. contemplates building two-story reinforced-concrete building and one-story, 10x142-ft. garage. Estimated cost, $50,000.

Minn., Minneapolis—Minneapolis Steel and Machinery Co., 29th and Minnehaha St., will build one-story, 140x356-ft. factory at 2906 Minnehaha St. Estimated cost, $60,000.

Minn., St. Paul—Contract will soon be awarded for ten-story, 48x150-ft. concrete terminal elevator for Equity Co-Operative Exchange. Plans prepared by Foltz Engineering Co., 1410 Pioneer Bldg., Arch. Estimated cost, $125,000. Noted Sept. 30.

Minn., St. Peter—St. Peter Woolen Mills will build factory. Estimated cost, $10,000. J. C. Brinkler interested.

Kan., Argentine—Plans being prepared for addition to car repair shed for Atchison, Topeka & Santa Fé Railway. Estimated cost, $45,000.

Kan., Wichita—Rumley Products Co. plans two-story, 100x120-ft. warehouse. Estimated cost, $30,000.

Mont., Butte—Roberts Cereal Mill Co. will build flour and feed mill at Butte. A. G. Roberts interested.

Mont., Helena—T. C. Power Co. will build 42x48x55-ft. seed cleaning plant and grain elevator.

Mo., Kansas City—Plans being prepared for bakery for Nafziger Baking Co. Estimated cost, $40,000.

Mo., St. Louis—J. Johansen will build three-story machine shop and garage.

Utah, Salt Lake City—Plans prepared by F. C. Barnes for garage at Main St. Estimated cost, $10,000.

Wash., Leavenworth—Rothert Process Steel Co. purchased site at Leavenworth and will build plant.

Ore., The Dalles—Dri Fresh Co. plans two-story, 75x150-ft. addition.

Alaska, Seward—F. T. Frank, Cordova, will build cement plant. Estimated cost, $100,000.

Bids In and Contracts Awarded

Mass., Malden—Parks-Osgood Co. awarded contract to WILLIAM M. BAILEY, 88 Broad St., Boston, for one-story garage. Estimated cost, $20,000.

Mass., Palmer—Armour & Co. awarded contract to FLYNT BUILDING AND CONSTRUCTION CO., Palmer, for three-story brick and reinforced-concrete plant. Estimated cost, $35,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for mason work for one-story, 75x100-ft. brick and steel ice storage plant for Ice Mfg. Co., 1480 Broadway, awarded to GEORGE H. McENTEE. Noted Oct. 28.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to ROSEN CONSTRUCTION CO., 3099 Stagg St., for three-story, 49x100-ft. garage at 440 E. 11th Ave., for N. Y. Herald.

N. Y., Rhinebeck—(Official)—Contract awarded to ROBERT S. POLLOCK, 110 East 28th St., for dairy buildings for Vincent Astor, 23 West 26th St. Estimated cost, $100,000. Noted Sept. 23.

N. Y., Rochester—(Official)—Eastman Kodak Co. awarded contract for two-story, 45x140-ft. and five-story, 80x165-ft. additions to plant to ALEXANDER, SHUMWAY & UTZ, Rochester. Noted Oct. 28.

N. J., Jersey City—Contract awarded to JOHN M. FERGUSON, Paterson, at $80,000, for three-story reinforced-concrete factory at Baldwin Ave. and High St. for Durham Duplex Razor Co.

N. J., Phillipsburg—Cannister Co. awarded contract for factory to BUTZ CLADER & CO., Allentown, N. J. Estimated cost, $50,000.

Penn., Philadelphia—Contract for 100x200-ft. reinforced-concrete grain elevator addition at Schuylkill Ave. for Pennsylvania R.R. awarded to JAMES STEWART & CO., Chicago, Ill. Estimated cost, $200,000.

Penn., Philadelphia—Louis Walther Mfg. Co. awarded contract for three-story, reinforced-concrete factory at Torresdale Ave. and N St. to M. WARD EASBY, Crozer Bldg., at $56,000. Noted Oct. 7.

Penn., Pittsburgh—Pittsburgh & Lake Erie R.R. Co. awarded contract to JAMES L. STUART for six-story warehouse at Smithfield St. Estimated cost, $1,000,000.

Del., Wilmington—William Freihofer Baking Co. awarded contract for bakery to PHILIP HAIBACH CONSTRUCTION CO. Estimated cost, $100,000. Noted Sept. 30.

D. C., Washington—Washington Steel and Ordnance Co. awarded contract to BLAW STEEL CONSTRUCTION CO., Pittsburgh, Penn., for 126x165-ft. addition to forge shop.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Ball Crank Co. awarded contract to ADAM KOENIG, for excavation and masonry work, L. SCHREIBER & SONS CO., for iron work, for one-story, 100x276-ft. factory.

Ohio, Youngstown—Brier Hill Steel Co. awarded contract to LACKAWANNA BRIDGE CO., Buffalo, N. Y., for two open-hearth steel furnaces. Noted Nov. 4.

Ind., Evansville—(Official)—Contract for five-story, 50x150-ft. factory for Anchor Supply Co. awarded to KOCH & GRIESBACHER. Noted Oct. 14.

Ind., Jasper—Jasper Mfg. Co. awarded contract for factory to SCHMIDT & RENNER, Jasper, at $14,774. Noted Oct. 14.

Ill., Dixon—State Colony for Epileptics awarded contract for cold storage, laundry and bakery building to A. B. KRAUEL, Danville, at $73,000.

Minn., Red Wing—Busch & Boxrud awarded contract to W. J. LONGCOR, Red Wing, for garage. Estimated cost, $25,000.

Ark., Foreman—(Official)—Consumers Portland Cement Co., 1405 Lumber Exchange Bldg., La Salle and Madison St., Chicago, Ill., awarded contract to FULLER ENGINEERING CO., Allentown, Penn., for building plant.

Wash., Seattle—Bids were received Oct. 20 by Port of Seattle Commission for four-story addition to warehouse on Whatcom Ave. from Harry Brandt Construction Co., at $60,500, Hans Pederson, $68,684, W. T. Butler, $67,500. Noted Oct. 14.

FEDERAL GOVERNMENT WORK

Proposed Work

Md., Indian Head—Extension to Pulping and Poaching House—Bids will be received by H. R. Stanford, Ch. of Bureaus of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for extension to pulping and poaching house, Naval Proving Ground, Indian Head.

D. C., Washington—Heating Plant—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., until 10 a.m., Nov. 17, for central heating, lighting and power plant at Washington, D. C.

Fla., Pensacola—Paving—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 4, for concrete pavement at navy aëronautic station, Pensacola.

Tenn., Humboldt—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 20, for U. S. post office at Humboldt.

Ky., Louisville—Lock Bridges—Bids will be received at U. S. Engineer Office until Dec. 6 for swing bridge over locks of Louisville and Portland Canal.

Ohio, Middletown—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 18, for U. S. post office at Middletown.

Mich., Sault. Ste. Marie—Timber—Bids will be received at U. S. Engineer Office, 337 Federal Bldg., Detroit, until noon, Dec. 15, for furnishing and delivering about 110,000-ft. B. M. of white oak timber. (See adv.)

Mo., Jefferson City—Elevator—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 29, for new hoist way and electric freight elevator, etc., in U. S. courthouse and post office, Jefferson City.

Colo., Denver—Machinery—Bids will be received by U. S. Reclamation Service, Denver, until Nov. 16, for furnishing excavating machinery for Yuma Project, Arizona.

Calif., San Francisco—Dry-dock—Secretary of Navy, Washington, D. C., approved plans of Union Iron Works for dry dock at Hunters Point.

Hawaii, Pearl Harbor—Buildings—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 4, for three buildings at naval station, Pearl Harbor.

P. I., Cavite—Buildings—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Jan. 4, for five buildings at naval station, Cavite.

Bids In and Contracts Awarded

Md., Indian Head—Tank and Tower—Bids were received Oct. 30 for 250,000-gal. steel water tank and tower at Naval Proving Ground, Indian Head, as follows: Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Penn., $10,184; York Bridge and Construction Co., Curry Bldg., York, Penn., $10,980; Memphis Steel Construction Co., Greensburg, Penn., $11,228. Noted Oct. 14.

Penn., Harrisburg—Post Office—H. L. Brown & Co., Mt. Vernon, N. Y., at $113,405, submitted lowest bid for additions and alterations to U. S. post office. Noted Aug. 26 and Oct. 7.

Ohio, Logan—Post Office—Contract for U. S. post office at Logan awarded to A. W. LANE, 19 South La Salle St., Chicago, Ill., at $42,820. Noted Sept. 9 and Oct. 21.

Wis., Merrill—Post Office—Bids were received Nov. 1 for post office at Merrill, (a) limestone, (b) sandstone, as follows: James Devault, Canton, Ohio, (a) $59,700, (b) $60,900;

John Lauritzen, Fergus Falls, Minn., (a) $53,900; Callahan-Mandl Co., 814 Reaper Blk., Chicago, Ill., (a) $58,700; (b) $60,000. Noted Sept. 30.

Mont., St. Ignatius—Excavation—Contract for Mission lateral H and sub-laterals, Flathead irrigation project, awarded to WILSON BROS., Polson, at $16,423. Noted Sept. 30.

Okla., Tulsa—Mechanical Equipment—Contract awarded to FARWELL HEATING AND ENGINEERING CO., Joplin, Mo., at $25,667, for mechanical equipment for U. S. post office and court house. Noted Sept. 2.

Okla., Tulsa—Post Office—Contract for U. S. post office and court house awarded to M. YEAGER & SON, Danville, Ill., at $184,856. Noted Oct. 7.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Mass., South Hyannis—Dredging—State appropriated $10,000 for dredging Lewis Bay between Egg Island and Dumbars Point.

Md. Hagerstown—Canal Improvements—Canal Towage Co. will improve Chesapeake & Ohio Canal, including concrete lock at Dam No. 6.

Fla., Arcadia—Ditch—Bids will be received until Nov. 15 by County Commissioners for drains, canals and ditches for Arcadia Drainage District in DeSoto County. Noted Oct. 7.

Fla., Bradentown—(Official)—Drainage—Bids will be received until Nov. 15 for purchase of $130,000 bonds for drainage. C. A. Tilton, Clk. of Bd. of County Comn. (See adv.)

Mich., Saginaw—Drainage—Saginaw County Supervisor contemplates draining land located by Spaulding, James, Swan Creek, Albee St., Charles and Plymouth Townships.

Ill., Chicago—Drainage—Drainage Board will issue $2,000,000 for widening river south of Van Buren St. and for diverting sewage in Calumet District.

Ill., Chicago—Canal—City plans 8-ft. canal to connect Chicago with Mississippi River and cheap water transportation with Gulf of Mexico and Pacific Coast.

Wis., Chilton—Drainage—Citizens contemplate establishing drainage district to drain land in Zimmerman Swamp and Saukville.

Minn., Bemidji—Ditches—A. Stanton, Judge County Court, plans Ditches Nos. 34 and 36, in Hamre and Steenerson Townships and in unorganized townships. Estimated cost, $283,882.

Minn., Duluth—Ditch—Contract will soon be awarded for Ditch No. 5 by County Commissioners. Estimated cost, $150,000.

Kan., Topeka—Drainage—Survey being made by V. R. Parkhurst of Indian and Soldier Creek territories of North Topeka Drainage District.

Tex., Aldine—Drainage—Bonds for $140,000 sold for drainage work in Drainage District No. 7.

Tex., Austin—Reclamation—A. A. Stiles, State Reclamation Engr., made surveys for organization of levee district for reclamation of 100,000 acres from mouth of Little Brazos to point near Marlin. Noted Aug. 26.

Tex., Bay City—Drainage—E. N. Gustafson, Engr., submitted report to Matagorda County Commissioners for drainage system in District No. 6. Estimated cost, $47,988. Noted Sept. 2.

Tex., Houston—Drainage—Bonds for $140,000 for drainage system have been sold. Noted Sept. 9.

N. M., Carlsbad—Irrigation—Bids will soon be received by L. E. Foster, Project Mgr., for Down Canyon Pipe line.

Utah, Minersville—Irrigation—Delta Land and Water Co. and Minersville Irrigation Co. contemplate lateral system of water distribution over 12,000 acres in Beaver County.

Wash., Brewster—Irrigation—Contract will soon be awarded for Brewster Irrigation District project. Estimated cost, $1,069,000. Noted Sept. 30.

Ore., Burns—Irrigation—Harbey Basin Development Co. has secured water rights to irrigate 50,000 acres of land.

Ore., Grandview—Irrigation—Election will be held Nov. 22 to vote on $600,000 bonds for Suttle Lake Irrigation District. C. I. Henline, Secy. Bd. of Directors.

Ore., Grants Pass—Irrigation—Rogue River Public Service Corporation granted permit by State Engineer to appropriate water for irrigation of 12,460 acres.

Ore., Hood River—Irrigation—Bids will be received until Nov. 16 by Board of Directors of East Fork Irrigation District Nos. 5 and 6, Hood Bldg., for diversion gates, dam and intake works and for enlarging canals. Noted Sept. 23.

Ore., Medford—Canal Improvements—Rogue River Canal Co. contemplates enlarging canal, building ten mile extension to Hopkins Canal and other improvements. Estimated cost, $250,000.

Ore., Salem—Reclamation—Surveys will be completed about Dec. 15 for reclamation of 75 miles on French Prairie. Noted Nov. 4.

Ore., Salem—Irrigation—Harney Basin Development Co. will irrigate about 50,000 acres.

Ore., Warrenton—Dredging—Surveys will be made for dredging mouth of Skipanon River at Warrenton. Estimated cost, $40,000.

Calif., Blythe—Irrigation—Plans prepared for irrigation of 60,000 acres for California Farm and Irrigation Co.

Calif., Lindsay—Irrigation—Preliminary surveys made for Lindsay Strathmore Irrigation District. Estimated cost, $1,600,000. John Burr, Charles K. Towt and others interested. Noted Nov. 4.

Calif., Los Angeles—Irrigation—Board of Supervisors contemplating issuing $2,606,000 bonds for organization of Irrigation District No. 3.

Calif., Pollasky—(Friant post office)—Irrigation Dam—Madera Canal and Irrigation Co. contemplates building irrigation dam across San Joaquin River near mouth of Hildreth Creek.

Calif., Stockton—Irrigation—Board of Supervisors will issue $300,000 bonds for West Side Irrigation District to irrigate 11,000 acres, pumping plant and ditch system. Noted Oct. 28.

Bids In and Contracts Awarded

Fla., Miami—Canals—South Florida Farm Co. awarded contract for 100 miles of canals and laterals on Lake Okeechobee in Lee and De Soto Counties to W. F. POLK.

Miss., Silver City—Canals—Contract for 15 miles of canals for Atchafalaya Drainage and Levee District awarded to W. P. BULLOCK CO., Kansas City, Mo., at $0.0777 per cu.yd. 36,000 cu.yd. of levees to C. B. BOX, Midnight, Miss., at $0.25 per cu.yd. Noted Oct. 14.

Ky., Henderson—(Official)—Drainage—Contract for 34,810 ft. drainage ditch awarded to A. BENNEMAN, Chicago, Ill., at $11,600. Noted Oct. 14.

Ohio, Toledo—Ditch—County Commissioners awarded contract for Harris Ditch to C. J. BOSTON, Monclova, Ohio.

Iowa Council Bluffs—Drainage—Contract for improving Allen Creek ditch and Fish Lake of Harrison-Pottawatomie Drainage District No. 1 awarded to R. S. MORROW, Omaha. Estimated cost from $38,000 to $50,000. Noted Oct. 21.

Iowa, Jefferson—Drainage—Contracts for drainage work in Drainage District No. 102, Greene County awarded as follows: SAC CITY CEMENT PRODUCTS CO., at $26,336, ARTHUR McHOSE, at $28,870, BART JONES AND C. A. MOORE, at $20,974.

Iowa, Jefferson—(Official)—Drainage—Contract for tile for drain No. 108, Franklin Township, awarded to JEFFERSON CEMENT PRODUCTS CO., at $11,017; labor to THOMAS LARSEN, Callender, at $9,703. Noted Oct. 21.

Minn., Blue Earth—(Official)—Ditch—Contract for County Ditch No. 32, Fairbault County, awarded to OTTO MILLER, at $14,435. Noted Oct. 21.

Ark., Corning—Ditch—Contract for 1,560,000 cu.yd. of ditch and 116,500 cu.yd. of levee work for Big Gun Drainage District, Clay and Green Counties, awarded to NORTHERN CONSTRUCTION CO., Elkhart, Ind., at $116,330.

Ark., Pocahontas—Drainage—Contract for drainage work in Big Running Water and Tupeld Drainage Districts awarded to SCHWEINGRUBER & POWERS, Datto, Ark.

Tex., Victoria—Drainage—Contract for improving Drainage District No. 3 awarded to U. B. McCURDY. Estimated cost, $190,500. Noted Sept. 30.

Colo., Sterling—Dam—North Sterling Irrigation District awarded contract for refacing dam 100 ft. high to CLARK & HESSELMAN, Pueblo. Estimated cost, $100,000.

N. M., Tularosa—Irrigation—Contract for installing pumping plant on Tularosa Creek for irrigation of 500 acres awarded to J. E. MALONEY.

MISCELLANEOUS

Proposed Work

N. Y., Buffalo—Wharf Improvements—Commissioner of Public Works will soon award contract for concrete wall paralleling the Bird Island Pier, 50x80 ft. out in river. Wall will be 3,000 ft. long.

N. J., Trenton—Fire-Alarm Station—Board of Commissioners will build central station for new police fire-alarm system.

Penn., Philadelphia—Piers—Cramp Shipbuilding Co. granted permission to build two piers into Delaware River at Girard Ave. Estimated cost, $45,900.

Penn., Philadelphia—(Official)—Pier—Bids will be received until noon, Dec. 6, by John Meigs, Dir. of Dept. of Wharfs, Docks and Ferries, 555 Bourse Bldg., Philadelphia, for superstructure of McKean St. Pier, Nos. 78 and 80 south, and adjacent bulkhead shed in Delaware River between McKean St. and Snyder Ave. Estimated cost, $500,000. Noted Aug. 26. (See adv.)

Md., Baltimore—Tunnel—Preliminary plans prepared for tunnel under Patatsco River for Pennsylvania R.R. Estimated cost, $12,000,000.

W. Va., Huntington—Subway—Plans prepared for subway in Tenth St. for Chesapeake & Ohio R.R. Co. Estimated cost, $50,000.

Miss., Bay St. Louis—Seawall—Bids will be received until Dec. 1 by Charles G. Moreau, seawall. Noted Oct. 21.

Ky., Louisville—Park Improvements—Park Commissioners considering improvements to parks.

Ohio, Portsmouth—Flood Protection—Bids will be received until noon, Nov. 17, by William Gergens, Dir. of Pub. Ser. for second section of flood protection wall. Noted Oct. 7.

Ohio, Springfield—Retaining Wall—Bids will be received until noon, Nov. 29, by Walter J. Barrett, City Audr., for purchase of $13,500 bonds for building and improving retaining walls in Mill Run. Noted Oct. 21.

Ohio, Wellsville—(Official)—Dikes—Citizens voted $50,000 for dykes. Noted Oct. 28.

Ind., Ft. Wayne—Elimination of Grade Crossing—Plans prepared for track elevation for Pennsylvania R.R. and Wabash R.R. Alexander C. Shand, Philadelphia, Penn., Ch. Engr., Pennsylvania R.R.

Ill., Belleville—Tunnel—City contemplates building tunnel to care for flood waters of Richland Creek which will bisect city from north to south. John Taylor, interested.

Ill., East St. Louis—Coal Terminal—Wiggins Ferry Co. contemplates building coal terminal at foot of Trendley Ave.

Wis., Beloit—Mausoleum—City will build mausoleum within year. Estimated cost between $45,000 and $75,000.

Neb., Omaha—Crane—Bids will be received until Nov. 16 by T. J. O'Connor, City Clk., for railroad crane of five tons capacity.

Mo., St. Joseph—Speedway—Plans prepared for two-mile speedway at Lake Contrary. John Prince interested. Estimated cost, $2,000,000. Noted Nov. 4.

Tex., Galveston—Dry Dock—J. J. Kane and associates plan dry dock and marine way.

Tex., Galveston—Wireless Station—Marconi Wireless Telegraph Co. will build wireless station with sufficient power to send and receive message from Europe.

Tex., Houston—Wharves and Slips—City contemplates expenditure of $1,000,000 for wharves and slips next year.

Tex., Orange—Dredging—Bids will soon be received for dredging slips for wharfs and docks. E. U. Henry, City Engr.

Wash., Seattle—Sprinkling System—Chicago, Milwaukee & Puget Sound Ry. Co. will install automatic sprinkling system for protecting Milwaukee docks on East Waterway. Estimated cost, $15,000.

Wash., Tacoma—Dike—County Commissioners of Pierce County, Thomas N. Morris, Audr., plans dikes along Lincoln Ave. on tideflats of Hylebos Creek. Estimated cost, $200,000.

Ore., Bandon—Jetty—Plans being prepared by Port Engineer for south jetty for Port of Bandon. Estimated cost, $20,000.

Calif., Huntington Beach—Subway Work—Bids will be received until Nov. 15 by City Clerk for reinforced-concrete pipe culverts, reinforced concrete and timber subway and approaches under Southern Pacific tracks.

Calif., Los Angeles—Elimination of Grade Crossings—Pacific Electric Ry. Co. will elevate tracks from station at Sixth and Main St. to San Pedro St. Estimated cost, $300,000.

Calif., Ocean Beach—Seawall—Citizens contemplate issuing $50,000 bonds for seawall.

Que., Montreal—Elimination of Grade Crossing—Plans prepared for eliminating grade crossing at St. Denis St. over tracks of Canadian Pacific Ry., which will involve building of bridge 500-ft. long with ornamental balustrades and electric-light standards. Estimated cost, $70,000.

Ont., London—Subway—H. A. Brazier, City Engr., estimates cost of Egerton St. subway to be $94,000.

Bids In and Contracts Awarded

Mass., Boston—Convenience Station—Contract for convenience station awarded to M. S. KELLIHER, Oak St., Atlantic. Estimated cost, $13,009.

N Y., New York—(Borough of Brooklyn)—(Official)—Station Finish—Bids were received Nov. 5 for station finish for 11 stations on Broadway-Fourth Ave. Rapid Transit R.R. from A. L. GUIDONE, 131 East 23d St., N. Y., at $513,656 (awarded contract); Louis Wechsler, $535,000; Marble Arch Co., $546,000. Noted Nov. 4.

N. Y., New York—(Borough of Brooklyn)—Terminal—New York Municipal Ry. awarded contract for Coney Island Terminal to GEORGE W. McNULTY CO., New York.

N. Y., New York—(Borough of Queens)—(Official)—Storm Drain—Bids were received Nov. 3 for storm drain for Queensborough Rapid Transit R.R. from Murphy Bros., Madison Ave. and 42d St., N. Y., at $7421; Lawrence Contracting Co., 2409 Walton Ave., N. Y., at $9,326; L. J. Moran, at $9,817.

N. J., Deal Beach—Bulkhead—Contract for bulkhead awarded to FRANK R. STONEWALL, Melvin, N. J., at $13,885. Noted Nov. 4.

N. J., Jersey City—Trap Rock—Hudson County Park Commissioner awarded contract to CHARLES T. KAVANAUGH, Bayonne, at $1.54 per cu.yd. for 3,300 cu.yd. 2½-in., 2,100 cu.yd. 1½-in. and 300 cu.yd. of ¾-in. broken trap rock; JAMES BRADY'S SONS CO., at $1.16 per bbl. for 500 bbl. of cement.

Penn., Philadelphia—Superstructures—McCLINTIC-MARSHALL CO., Philadelphia, awarded contract for steel superstructures on three sections of Frankford Elevated Line extending from Girard Ave. north to Unity St. at $1,455,000. Noted Nov. 4.

Penn., Pittsburgh—Retaining Wall—Contract awarded to WILLIAM J. PAYNE, JR., CO., at $20,460, for various retaining walls along Scotia Hollow Rd. in Jefferson Township.

Penn., St. Clair—Elimination of Grade Crossing—Contract awarded to P. J. CAMPION, Mahanoy City, for subway under Reading Ry. at northern section of Second St. on line of Schuylkill Ry. Co. to eliminate grade crossing.

Va., City Point—Pier—E. I. Du Pont de Nemours Powder Co. awarded contract to W. D. MURRAY & CO., at $50,000, for pier on James River.

Va., Lamberts Point—(Norfolk post office)—Piers—Press reports state that John P. Pettyjohn & Co., Lynchburg, will be awarded contract for two piers for Norfolk & Western R.R. Estimated cost, $1,800,000. Noted Oct. 14.

La., New Orleans—Levee—State Board of Engineers awarded contract to A. G. THOMAS, at $5 per hour for levee from Happy Jack to Butlar.

Ill., Alton—Tunnel—Board of Administration, Alton State Hospital, awarded contract to STRUBEL & HELMICK, Alton, at $53,850, for tunnel system.

Ill., Shawneetown—Levee—River and Lakes Commission awarded contract for repair work to Shawneetown Levee to J. A. CAMPBELL, Oakland, Ind., at $0.67 per cu.yd.

Wis., Lake Geneva—Storage Tank—John C. Flemming awarded contract to J. D. READER for 10,000-gal. storage tank and steel support.

Wis., Superior—Dock Improvements—M. A. Hanna & Co. awarded contracts for improvements to docks to BARNETT RECORD CO., concrete work; MEAD MORRISON CO., Chicago, Ill., steel work. Estimated cost, $90,000.

Wis., Superior—Freight Steamer—Interlake Steamship Co., Cleveland, Ohio, awarded contract to AMERICAN SHIP BUILDING CO., at $440,000, for 60x600-ft. freight steamer.

Iowa, Muscatine—Terminal—Levee Commission awarded contract to B. LAYTON, Chicago, Ill., at $13,676, for terminal.

Tex., Temple—(Official)—Fire-Alarm System—Contract for fire-alarm system awarded to GAMEWELL FIRE ALARM CO. Estimated cost, $10,000. Noted Oct. 28.

Tex., Victoria—Freight Pier—Contract for reinforced concrete pier 1,000-ft. long and 100 ft. wide for Raisin, Fordtran & Smiley Ry. awarded to FRED URBAN BUILDING CO. Estimated cost, $1,000,000.

Wash., Cathlamet—Dike—Contract for 17 miles of dike on Columbia River awarded to MONTAGUE & O'REILLY, Portland, Ore., at $99,000. Noted Oct. 21.

Wash., Seattle—Bulkhead—Contract for filling and bulkheading East Marginal Way awarded to PUGET SOUND BRIDGE AND DREDGING CO., Seattle, at $80,957. Noted Oct. 14.

Ore., Portland—Elimination of Grade Crossing—Contract for underground crossing on Sandy Rd. awarded to CROWLITZ BRIDGE CO.

Calif., San Francisco—(Official)—Esplanade—Contract for Section A of esplanade and sea wall awarded to C. E. LAMBURTH, San Francisco, at $48,500. Noted Nov. 4.

Porto Rico, San Juan—Bulkhead Shed—Bids received Oct. 1 by Harbor Board for (a) 841-ft. shed, (b) 529-ft. shed, (c) 1 crane, (d) 2 cranes as follows: J. Benitez, (a) $72,975, (b) $17,582, (d) $30,498; P. J. Carlin Construction Co., (a) $78,800, (b) $53,000, (c) $17,000, (d) $29,000; John Monks & Son, (a) $83,138, (b) $56,975, (c) $19,000, (d) $34,000. Noted Sept. 2.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Boston—(Roxbury)—(Official)—Bids will be received by Schoolhouse Commissioners of City of Boston until noon, Nov. 12, for addition to High School of Practical Arts. Noted Oct. 28 and Nov. 4.

Mass., Boston—Plans being prepared for theater, bowling alleys, garage and stone building for Myer Dana, 209 Washington St. Silverman Engineering Co., 43 Tremont St., Arch. Estimated cost, $400,000.

Mass., Boston—Plans being prepared by Joseph D. McGinnis, Arch., 16 Arlington St., for 3-story school. J. P. Lomasney, Ch. of Schoolhouse Com. Estimated cost, $200,000.

Mass., Boston—Shawmut Avenue Real Estate Trust will build six-story mercantile building at Shawmut Ave. and Castle St. Estimated cost, $200,000. G. N. Meserve, Arch.

Mass., Boston—Plans being prepared by C. Howard Walker, 71 Kilby Bldg., Boston, for office building for Eugene F. Sullivan.

Mass., Boston—Josiah H. Bentors, Chn. Bd. of Trustees, plans addition to Public Library at Copley Sq. Estimated cost, $300,000.

Mass., North Adams—Bids will be received until Nov. 17 by E. C. and G. C. Gardner, Arch., Springfield, Mass., for three-story, 100x270-ft. brick high school. Estimated cost, $125,000. Noted Sept. 16.

Mass., Waltham—Bids will be received until Nov. 15 for one-story, 62x184-ft. brick and terra cotta church for St. Charles R. C. Church. Estimated cost, $80,000. Noted Oct. 7.

R. I., Providence—Bids will be received until Nov. 22 by Board of Contract and Supply for grammar school building. Carpenter & Sheldon, Arch. Estimated cost, $150,000. Noted Oct. 7.

Conn., Wethersfield—Plans being prepared for administration building for Connecticut Institute for the Blind. A. Raymond, Arch.

N. Y., Buffalo—Bids will be received until 11 a.m., Nov. 16, by E. J. Meyer, Chn. of Hospital Com., 1312 Main St., for hospital at Kensington Ave. and Grider St. Estimated cost, $600,000. Green & Wicks, 110 Franklin St., Arch.

N. Y., Far Rockaway—Board of Education contemplates building addition to Public School No. 39. Estimated cost, $50,000.

N. Y., New York—(Borough of Bronx)—(Official)—Preliminary plans being prepared by Louis Allen Abramson, Arch., 220-Fifth Ave., for four-story, 200x200-ft. hospital for Home of Daughters of Jacob, 302 East Broadway. Estimated cost, $400,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Preliminary plans being prepared by Mott B. Schmidt, Arch., 15 East 40th St., for 12-story, 25x100-ft. reinforced-concrete loft building for 23 West 57th St. Corps. Estimated cost, $150,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans prepared for 12-story, 25x100-ft. store and office building at 58th St. near Fifth Ave. for 25 West 57th St. Co., 128 Broadway M. B. Schmidt, Arch., 15 East 40th St. Estimated cost, $125,000.

N. Y., New York—(Borough of Manhattan)—(Official)—R. H. Almivoty, Arch., 220 Fifth Ave., preparing plans for alteration to loft and store building for Pinchot Estate, 60 Broadway. Estimated cost, $125,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared for addition to department store at Lexington Ave. and 60th St. for Bloomingdale Bros., 59th St. and Third Ave. Buchman & Fox, Arch., Madison Ave. and 42nd St. Estimated cost, $400,000.

N. Y., Rochester—Plans being prepared by Gordon & Madden, Arch., Sibley Bldg., for school No. 37. J. S. Mullan, Secy. Bd. of Education. Estimated cost, $90,000.

N. Y., Saranac Lake—Plans submitted by Mann & MacNeille, Arch., 70 East 45th St., N. Y., to C. M. Palmer, Chn. Local Development Com. of Bd. of Trade for hotel and club house. Estimated cost, $500,000.

N. J., Elizabeth—Bids will soon be received for El Mora School by the Board of Education. Estimated cost, $60,000.

N. J., Jersey City—Board of Commissioners will build school for crippled children.

N. J., Montclair—(Official)—Bids will be received until 8 p.m., Nov. 23, by Frank J. Taylor, Secy. Bd. of Education, for alterations to Spaulding School. Estimated cost, $50,000. Noted Oct. 28. (See adv.)

N. J., Morris Plains—Commission of Mental Defectives preparing preliminary plans for addition to State Hospital.

N. J., Newark—Citizens voted $1,500,000 bond issue for municipal memorial building.

N. J., New Providence—Bids will be received until Nov. 15 by Board of Education for Lincoln School.

N. J., Spring Lake—Plans prepared by Watson & Huckel, Arch., 1211 Walnut St., Philadelphia, Penn., for five-story brick addition to Hotel Monmouth. Estimated cost, $45,000.

N. J., Westfield—Holy Trinity Church contemplates building church and school on Westfield Ave. Estimated cost, $70,000.

Penn., Brackenridge—(Official)—Citizens voted $60,000 bonds for school. Noted Oct. 14.

Penn., Butler—Plans being prepared for three-story, 80x160-ft. lodge building for L. O. O. M. No. 67. M. Nirdlinger, Arch., Diamond Bank Bldg. Estimated cost, $75,000.

Penn., Carlisle—F. H. Hall, Secy. Pub. Charities Comn., contemplates building inebriate asylum. J. M. McColum, Berger Bldg., Pittsburgh, Arch. Estimated cost, $300,000.

Penn., Edgewood—Plans being prepared by Thomas Hannah, Arch., for church for First Presbyterian Church. Estimated cost, $75,000.

Penn., Harrisburg—Kesher Israel and Chisul Emuna Jewish Congregations have united and will build synagogue. Estimated cost, $80,000.

Penn., Hershey—First United Brethren Church will build church on Chocolate Ave. Estimated cost, $60,000. M. S. Hershey, interested.

Penn., Lewisburg—Union County contemplates one and two-story jail. A. H. Frick, Arch. Estimated cost, $75,000.

Penn., Lewistown—(Official)—Citizens voted $100,000 bonds for high schools. Noted Oct. 28.

Penn., Philadelphia—(Official)—Bids will not be received this year for one-story building for Beneficial Savings Fund Society. Estimated cost, $250,000.

Penn., Philadelphia—St. Carthage Church will build two-story stone church at 62nd St. and Cedar Ave. Henon & Boyle, Arch.

Penn., Philadelphia—Plans being prepared by W. H. Thomas, Arch., Philadelphia, for church at 51st and Spruce St. for Protestant Episcopal Chapel of Mediator. Estimated cost, $100,000.

Penn., Pittsburgh—Plans prepared by Thomas Hannah, Arch., for church for Edgewood Presbyterian Congregation. Estimated cost, $80,000.

Penn., Pittsburgh—Plans being prepared for five-story, 82x114-ft. building for First U. P. Church. Estimated cost, $300,000.

Penn., Scottdale—Plans being prepared for two-story church for United Brethren Church. Estimated cost, $40,000.

Penn., Wilkinsburg—Board of Education retained Ingham & Boyd, Arch., Vanderbilt Bldg., Pittsburgh, to prepare plans for school. Estimated cost, $300,000.

Penn., York—York County contemplates building one and two-story almshouse. B. F. Willis, 10 West Market St. Estimated cost, $400,000.

Del., Newark—Bids will soon be received for two-story agriculture building for Delaware State College. Day & Klauber, Arch., Philadelphia, Penn. Noted Oct. 21.

D. C., Washington—Plans being prepared by Marsh & Peter, Arch., 520 13th St., N. W., for preparatory school for Georgetown University. Estimated cost, $400,000.

D. C., Washington—Y. M. C. A. plans six-story building. C. L. Harding, Woodward Bldg., Arch. Estimated cost, $400,000.

D. C., Washington—Plans prepared by R. W. Geare, Arch., Woodward Bldg., for motion picture theater. Estimated cost, $100,000.

W. Va., Wheeling—Plans prepared by F. F. Faris, E. B. Frankheim and M. F. Giese, Archs., for clubhouse for Knights of Columbus. Estimated cost, $100,000.

W. Va., Wheeling—Royal Southern Amusement Co. plans to build theater and dance hall. Estimated cost, $50,000. G. H. Dieringer, 106 North Huron St., Arch.

Ga., Athens—Bids will be received until noon, Dec. 1, by W. T. Forbes, Secy. Bldg. Comn., for Y. M. C. A. building.

Fla., Jacksonville—Contracts for ten schools will be awarded in January by Board of Public Instruction of Duval County. Bonds for $1,000,000 sold. William B. Ittner, St. Louis, Mo., Arch.

Miss., Pass Christian—See item under "Streets and Roads."

La., New Orleans—Bids will be received until 5 p.m., Nov. 17, by Rathbone DeBuys and Charles R. Armstrong, Arch., 1018 Hibernia Bank Bldg., New Orleans, for Corinne Casanas Memorial Clinic Hospital at Birod St.

Tenn., Knoxville—Board of Commerce contemplates building to be known as Tennessee Vocational Reformatory for Girls. Estimated cost, $50,000.

Tenn., Memphis—Plans being prepared for six-story building at Union Ave. and Third St. for Frank G. Jones. Estimated cost, $75,000.

Tenn., Murfreesboro—Plans prepared by R. H. Hunt, Arch., Chattanooga, for new Baptist Church. Estimated cost, $40,000.

Tenn., Nashville—Board of Education having plans prepared by W. B. Ittner, for addition to high school building. Estimated cost, $100,000.

Tenn., Nashville—Commercial Club will remodel Vanderbilt Law Bldg., and build swimming pool. Marr & Holman, Nashville, Arch. Estimated cost, $75,000.

Ky., Ashland—Congregation of Ashland Methodist Episcopal Church plans to build church and Sunday school. Estimated cost, $75,000. V. T. Ritter, 1119 First National Bank Bldg., Huntington, W. Va., Arch.

Ky., Georgetown—(Official)—Citizens defeated $80,000 bonds for new school. Noted Oct. 14 and 21.

Ky., Lexington—(Official)—Citizens voted $100,000 bonds for two schools. Noted Aug. 28.

Ohio, Avondale—Plans being prepared by Samuel Hannaford & Son, Arch., for building for Bethesda Hospital. Estimated cost, $50,000.

Ohio, Bratenahl—(Cleveland post office)—Plans prepared by A. Garfield, Arch., 815 Garfield Bldg., Cleveland, for city hall building at East 105th St. C. A. Neff, City Clk.

Ohio, Canton—Bids will be received by School Board until Nov. 22 for Daniel-Worley School.

Ohio, Chillicothe—A tuberculosis hospital will be constructed by Ross, Fayette, Highland, Sciota and Fairfield Counties. Estimated cost, $40,000. Robert Alexander, Secy.

Ohio, Chillicothe—Bids will soon be received for two-story memorial building and armory for Fourth Regiment. Estimated cost, $65,000.

Ohio, Cleveland—Citizens voted $2,000,000 bonds for schools and improvements to schools. Noted Oct. 17.

Ohio, Cleveland—Cleveland Council, Knights of Columbus, contemplate new clubhouse. Estimated cost, $50,000.

Ohio, Cleveland—Plans prepared by William S. Lougee, Arch., 500 Marshall Bldg., for two-story club house at 2097 East 21st St. for Bricklayers' Union. Estimated cost, $40,000.

Ohio, Cleveland—Bids will soon be received by Hubbell & Benes, 201 Avenue Bldg., Arch., for club house and auditorium for Al Koran Temple of the Mystic Shrine. Estimated cost, $300,000.

Ohio, Cleveland—Mall Building Co. will not build theater until spring. Estimated cost, $65,000.

Ohio, Cleveland—Plans are being prepared by Franz C. Warner, Arch., 767 Hippodrome Bldg., for four-story, 110x120-ft. college for Western Reserve University Dental School. Estimated cost, $125,000.

Ohio, Cleveland—Bids will soon be received for four-story, 60x145-ft. addition for St. Alexis Hospital, Sisters of St. Francis. William C. Jamsen, Arch., 403 O'Brien Bldg. Estimated cost, $150,000. Noted Nov. 4.

Ohio, Columbus—Howard & Merriam contemplate building school in Goshen Township. Estimated cost, $40,000.

Ohio, Columbus—Plans prepared for school building for Preble County.

Ohio, Columbus—Plans prepared by Stribling & Lum, Arch., for Columbus General Hospital at Indianola Ave. and Glen Echo Ravine.

Ohio, Columbus—Bids will be received until noon, Nov. 15, by Ohio State University, Carl E. Steeb, Secy., for Homeopathic Hospital.

Ohio, Dayton—Peter Kuntz will build tuberculosis hospital above Stillwater River off Covington pike. Estimated cost, $500,000.

Ohio, Elyria—Plans being considered by Willys-Overland Co. for hospital for employees. Estimated cost, $60,000.

Ohio, Fremont—Grace Lutheran Church plans one-story church and parish house. Estimated cost, $75,000.

Ohio, Lakewood—Citizens voted $500,000 bonds for schools

Ohio, Martins Ferry—Preliminary plans being prepared by C. W. Bates, National Bank of West Virginia Bldg., for store, bank and office building for German Savings Bank. Estimated cost, $80,00. E. E. McCombs, Pres.

Ohio, Norwood—South Norwood Welfare Association interested in plan to issue $45,000 bonds for new school in Norwood View.

Ohio, Old Fort—Board of Education retained H. C. Millott, Arch., 411 Columbus Ave., to prepare plans for two-story, 98x108-ft. school. Estimated cost, $40,000.

Ohio, Painesville—Preliminary plans prepared for gymnasium for Lake Erie College. Bids will not be received until spring. Estimated cost, $70,000.

Ohio, Somerville—(Official)—Bids will be received until noon, Nov. 20, by F. W. Peter, Clk., Bd. of Education of Somerville Village School District, for fire-proof school building.

Ohio, Steubenville—Bids will soon be received for three-story, 48x70-ft. lodge and store building for Lodge No. 1, Knights of Pythias. Estimated cost, $40,000. J. C. Ault, Market St., Chn. of Trustees.

Ohio, Toledo—A 16-story, reinforced-concrete hotel will be constructed on site of present Boody House. Estimated cost, $3,000,000.

Ohio, Uhrichsville—Board of Education plans to hold election to vote on bond issue for $40,000 for new school on Trenton Ave. and repairing Main St. school.

Ohio, Warren—Plans being prepared by Crow, Lewis & Wickenhoefer, Arch., 200 Fifth Ave., New York, N. Y., for two-story church for First Presbyterian Church. Estimated cost, $55,000.

Ohio, Wooster—Board of Education of Wayne Township plans to issue $40,000 bonds for high and grade school.

Ohio, Youngstown—Y. W. C. A. plans to build a five-story, 58x144-ft. dormitory. Estimated cost, $40,000. E. F. Moore, 225 W. Rayen St., Gen. Secy.

Ind., Brookston—Edward Ferguson, Trustee, has retained Elmer E. Dunlap, 909 State Life Bldg., Indianapolis, Arch.., to prepare plans for high and grade school. Estimated cost, $40,000.

Ind., Springfield—Board of Education contemplates building high school at Eighth and North B St. Estimated cost, $150,000.

Ind., Terre Haute—(Official)—Bids will be received about Dec. 1 for 16-room school at 25th and Fourth Ave. Estimated cost, $70,000. John & Miller, Ball Bldg., Arch. Noted Oct. 28.

Mich., East Lansing—Bids will be received until noon, Nov. 17, by A. M. Brown, Secy. State Bd. of Agriculture, for gymnasium at Michigan Agriculture College. E. A. Brown, Lansing, Mich., Arch.

Mich., Grand Rapids—Bids will soon be received by Lee De Camp, Arch., 26 Empress Bldg., for three-story, 13,132-ft. theater. Estimated cost, $225,000. Noted Aug. 12.

Mich., Lansing—Bids will be received about Nov. 15 for eight-story 45x100-ft. bank and office building for Lansing State and Savings Bank. S. D. Butterworth, Arch., 432 Tussing Bldg. Noted Oct. 28.

Ill., Chicago—Chicago Theological Seminary contemplates building theological school. Estimated cost, $200,000.

Chicago, Ill.—Chicago Telephone Co., 212 West Washington St., will build three-story brick exchange at 1509 North Western Ave. Estimated cost, $90,000.

Ill., Danville—Bids will soon be received for four-story, 75x150-ft. building for Masonic Lodge. Estimated cost, $150,000. J. Sutton, Secy.

Ill., Decatur—State Federation of Labor contemplates building temple. Estimated cost, $75,000.

Ill., Freeport—Elks of Moline will build lodge building. Estimated cost, $100,000.

Ill., Mendota—Citizens voted $60,000 bonds for high-school building.

Ill., Springfield—Charles H. Seward will build three-story building at Third and Adams St. Estimated cost, $50,000.

Wis., Kenosha—Kenosha County Supervisors plan to build hospital for insane. Estimated cost, $100,000.

Wis., Madison—Chicago, Milwaukee & St. Paul Railway will build new union station. Estimated cost, $16,000,000.

Wis., Milwaukee—Plans being prepared for 12-story 120x120-ft. club house for Ticonic Investment Co., 927 Wells Bldg. Estimated cost, $500,000.

Wis., Milwaukee—Bids will be received in December for two-story, 109x174-ft. and one-story, 35x76-ft. school and power house for Board of Education. Van Ryn & De Gelleke, Caswell Bldg., Arch.

Wis., Milwaukee—Henry G. Lotte, Arch., 304 West Water St., preparing plans for one-story moving-picture theater for O. L. Meister. Estimated cost, $50,000.

Wis., Milwaukee—Plans prepared by Schmidt, Garden & Martin, Arch., 104 South Michigan Ave., Chicago, Ill., for four-story Columbia Hospital at Hartford and Maryland Ave. Estimated cost, $300,000.

Wis., Waukegan—Carroll College will build gymnasium in connection with proposed boys dormitory. Estimated cost, $100,000.

Minn., Minneapolis—Milwaukee Railway Co. contemplates passenger station in southern part of city. Estimated cost, $100,000.

Minn., St. Paul—Work will soon be started on building of 12-story addition to St. Paul Hotel. Estimated cost, $250,000.

Kan., Coffeyville—Preliminary plans being prepared by C. A. Henderson, Arch., Kellogg Bldg., for school buildings for Board of Education. G. Halsey, Clk., Bd. of Education. Estimated cost, $56,000. Noted Sept. 30.

Kan., Salina—Work will be started in spring on academy for Sisters of St. Joseph. Estimated cost, $200,000.

Kan., Wichita—New bids will be received until Nov. 22 for Y. M. C. A. building. Estimated cost, $65,000. H. S. Conrow, Beacon Bldg., Arch. Noted Oct. 28.

Kan., Winfield—Plans prepared for six-story hotel on Main St. and Ninth Ave. for Capitalists of Winfield. Estimated cost, $200,000. Noted Nov. 4.

Mo., St. Louis—Bids will be received until noon, Nov. 19, by Board of Public Works, 315 City Hall, for first unit of new children's building for City of St. Louis.

Tex., Austin—Plans being prepared for hotel for H. A. Wroe and associates. Estimated cost, $500,000.

Tex., Wichita Falls—(Official)—Election will be held Nov. 20 to vote on $150,000 bonds for courthouse. Noted Oct. 14.

Okla., Holdenville—Election will be held Nov. 17 to vote on $100,000 bonds for courthouse and jail.

Okla., Vinita—Citizens contemplate holding election to vote on $50,000 bonds for courthouse. E. J. McBride, County Clk.

Colo., Denver—Board of Education will build three schools. Estimated cost, $140,000.

Colo., Loveland—Citizens voted $90,000 bonds for high and grammer school. Noted Oct. 21.

Wash., Bellingham—Trezise Estate will build three-story, 55x125-ft. building at 1214 Commercial St. Estimated cost, $60,000.

Ore., Pendleton—W. H. McCormack, Pendleton, retained C. E. Troutman, Arch., to prepare plans for anamusement resort consisting of hotel, matatorium and 20 cottages. Estimated cost between $50,000 and $75,000.

Calif., Lodi—(Official)—Election will soon be held to vote on bonds for school. Otto Welhe, Secy. School Bd. Noted Oct. 21.

Calif., San Francisco—Ellis Street Investment Co. is financing a project for building theater at Ellis and Mason St. Estimated cost, $300,000.

Bids In and Contracts Awarded

Maine, Bucksport—Contract for theater for H. O. Hussey awarded to OTTO NELSON CO., Bangor.

Mass., Holyoke—(Official)—All bids received for isolation hospital for city rejected as being too high. Estimated cost, $40,000. Noted Oct. 21 and 28.

Mass., Milford—Contract for brick construction of school awarded to DILLON BROS., Milford, at $69,873. Noted Sept. 30.

Mass., Worcester—Notre Dame Church awarded contract to E. BELISLE for three-story, 69x72-ft. parochial school. Estimated cost, $50,000.

R. I., Providence—Contract for dormitory for State Home and School awarded to CRUISE & SMILEY CO., Pawtucket. Noted Oct. 21.

Conn., Milford—(Official)—Contract for municipal building awarded to NORMAN KER, 1123 Broadway, N. Y., at $120,000. Noted Oct. 14 and 28.

Conn., New Haven—New Haven Hospital awarded general contract for eight buildings to TRACY BROS., Waterbury, Conn. Estimated cost, $400,000.

N. Y., Albany—Contract for six-story office building at 124 State St. for Municipal Gas Co. awarded to WELLS BROTHERS CO. Estimated cost, $250,000. Noted Sept. 16.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids were received Nov. 1 by Park Commission for two-story lecture hall and greenhouse extension for Brooklyn Botanic Garden from Frymier & Hanna Co., 25 West 45th St., at $140,223; Thomas McKeown, 103 Park Ave., at $147,235; P. F. Kenney Co., 33 Old Broadway, at $155,000. Noted Sept. 30.

N. Y., New York—(Borough of Manhattan)—St. Bernard's R. C. Church, 328 West 14th St., awarded contract for five-story, 66x125-ft. school to JOHN BRADY & CO., 103 Park Ave. Estimated cost, $130,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for lounge room for Hotel Biltmore, 43d St. and Madison Ave., for New York Central R.R. Co. awarded to JOHN PIERCE, 383 Madison Ave. Estimated cost, $50,000. Noted Oct. 14.

N. Y., White Plains—(Official)—Contract for penitentiary and workhouse at East View, for Westchester County, awarded to JOHN T. BRADY & CO., 52 Vanderbilt Ave., at $500,000. Noted Sept. 9.

N. J., Hoboken—(Official)—Hoboken Land and Improvement Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, N. Y., for Section D of 12-story, 81x263-ft. building at 15th St.

N. J., Newark—Board of Education awarded contract for Milford School at 18th Ave. to E. M. WALDRON & CO., INC., at $101,090 for mason and carpenter work, CHARLES GOELLER CONSTRUCTION CO., at $13,645 for steel and iron. Noted Oct. 28.

Penn., Allentown—Board of Education awarded general contract to OCHS CONSTRUCTION CO., 450 Wire St., at $79,125, for two-story school.

Penn., Lebanon—Bids have been received for two-story high-school building from F. W. Finn, Altoona, at $149,330, and Pitzell & Kuhn, Lancaster, at $207,169. A. A. Richter, Reading, Penn., Arch.

Penn., Philadelphia—(Bustleton)—(Official)—Contract for two-story school addition awarded to MELODY & KEATING, Bailey Bldg., at $40,444. Noted Oct. 28.

Ga., Macon—(Official)—Contract for three-story, 84x245-ft. main station, 54x12-ft. baggage building, 54x132-ft. express building for Central of Georgia R.R. Co. awarded to J. HENRY MILLER, Baltimore, Md. Estimated cost, $1,000,000. Noted Sept. 30.

Tenn., Nashville—Contract for seven-story office building for Nashville Property Co. awarded to AMERICAN CONSTRUCTION CO.

Ohio, Athens—Contract awarded to CULLEN & VAUGHN, Hamilton, Ohio, at $97,796, for women's dormitory for Ohio University. Noted Oct. 14.

Ind., Terra Haute—(Official)—A. W. Stoolman, Champaign, Ill., submitted lowest bid for building for Masonic Temple Association. Estimated cost, $90,000. Noted Oct. 7.

Ill., Alton—Alton State Hospital awarded contract for dinning hall to FRANK VOORHEES, at $70,000.

Wis., Madison—State Board of Control of Charitable and Penal Institutions awarded contract for substructure of first unit of Southern Home for Feeble-Minded, Racine County, to C. A. DIEMAN CO., Wauwatosa.

Iowa, Rock Rapids—Contract for three-story courthouse awarded to A. M. WOLD CONSTRUCTION CO., Brookings, S. D., at $107,300. Noted Oct. 7 and 28.

Kan., Hiawatha—Contract awarded to CENTRAL CONCRETE CONSTRUCTION CO., Kansas City, Mo., at $53,650, for erecting high school. Noted Oct. 28.

Tex., El Paso—Contract for high school awarded to AMERICAN CONSTRUCTION CO., Houston, at $272,900. Noted Oct. 14.

Wash., Seattle—(Official)—Board of Regents, University of Washington, awarded contract for university building to TINNE & GJARDE, 725 Northern Bank and Trust Bldg., Seattle, at $99,936. Noted Oct 7.

Calif., San Francisco—Standard Oil Co. awarded contract for addition at Bush and Sansome St. to P. J. WALKER CO., at $100,000.

SEWERS, BOSTON, MASS.

Bids were received Aug. 24 by the Board of Public Works for constructing sewers and drains in Albany St. from (A) William Barrett & Co.; (B) West Roxbury Trap Rock Co.; (C) James J. Conway; (D) Antony Cefalo; (E) Peter W. Hill; (F) Atlas Contracting Co.; (G) Coleman Bros.; (H) James J. Coughlin Co.; (I) George J. Regan; (J) George M. Bryne; (K) Anthony Baruffaldi; (L) M. De Sisto; (M) Bruno & Petitti; (N) McCarthy & Walsh; (O) Michael Russo & Co.; (P) A. G. Tomasello; (Q) J. H. Ferguson & Co.; (R) Hugh Nawn Contracting Co.

	A	B	C	D	E	F	G	H	
243 lin.ft. 24-in. pipe sewer	$2.57	$2.95	$1.00	$4.00	$2.65	$13.00	$2.00	$2.00	.50
887 lin.ft. 18-in. pipe sewer	2.51	2.95	1.00	3.80	2.65	13.00	2.00	2.00	.50
10 lin.ft. 15-in. pipe sewer	2.70	2.00	1.50	3.50	3.00	5.00	1.50	1.25	.00
70 lin.ft. 12-in. pipe sewer	2.70	2.00	1.50	3.50	2.15	5.00	1.50	1.25	.00
10 lin.ft. 10-in. pipe connection with intercepting sewer	10.00	2.00	3.00	3.50	1.75	5.00	1.50	1.50	.50
1,700 lin.ft. 2 ft., 6 in. x 4 ft., 4 in. concrete sewer	3.67	3.75	2.00	4.50	4.10	3.50	3.25	3.25	.00
650 lin.ft. 2 ft., 0 in. x 4 ft., 0 in. concrete sewer	3.00	3.25	2.00	4.00	3.20	13.50	3.00	3.25	.00
100 cu.yd. excavation below grade	3.00	3.00	2.00	5.00	1.50	3.00	1.50	2.00	.00
30 cu.yd. excavation above grade	3.00	.50	2.00	3.00	1.50	2.00	1.00	2.00	.00
20 cu.yd. rock excavation	5.00	6.00	10.00	6.00	6.00	.....	2.00	5.00	.00
200 cu.yd. clean gravel refill	.....	1.00	.....	4.00	1.50	.....	1.50	1.00	.00
Spruce piles under 20 ft. in length	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles 20 ft. to 30 ft. in length, both inclusive	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles exceeding 30 ft. and including 40 ft.	.28	.28	.28	.28	.28	.28	.28	.28	.28
Spruce piles exceeding 40 ft. in length	.35	.35	.35	.35	.35	.35	.35	.35	.35
250 M ft. b.m. spruce lumber for sheeting and shoring	.....	.....	24.00	.....	.....	.....	20.00	25.00	.....
5 M ft. b.m. 2-in. spruce for sheeting and shoring	40.00	30.00	60.00	35.00	40.00	36.00	30.00	30.00	40.00
5 M ft. b.m. 3 to 6-in. planed grooved and Georgia pine	.....	.....	.....	.....	40.00	.....	34.00	40.00	.....
37 M ft. b.m. spruce lumber for pile gaps, platforms	30.00	30.00	30.00	.....	40.00	40.00	35.00	25.00	50.00
3,540 lin.ft. pipe underdrain	.20	.05	.....	.25	.25	.30	.20	.30	.....
1,850 cu.yd., Class A, concrete	6.80	8.00	7.00	7.00	7.00	.....	7.00	7.50	8.00
Class A, concrete mixed hydrated lime	.50	.50	.50	.50	.50	.50	.50	.50	.50
Class B concrete	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Class C concrete	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
460 lin.ft. 10-in. pipe catch basin drain	.75	1.00	1.00	1.00	1.00	.60	1.00	1.25	2.00
Pipe for chimneys	.15	.15	.15	.15	.15	.15	.15	.15	.15
100 lin.ft. laying pipe house drain	.....	1.00	1.00	.....	1.00	1.00	1.00	1.00	1.00
350 lin.ft. relay, reconn., existing house drain, in or outside main trench	1.00	1.00	.10	4.00	1.00	.....	.70	1.00	3.00
240 lin.ft. relaying, reconnect., existing catch basin drain	1.00	1.00	.10	3.00	1.00	.....	.70	1.00	3.00
50 lin.ft. relaying, reconn., existing drain other than house and catch basin drain	.....	.50	.10	.....	1.00	.....	1.00	1.25	.....
50 lin.ft. relaying, reconn., existin drain outside main trench other than house and catch basin drain	.....	.50	2.00	.....	1.00	.....	1.00	1.25	.....
Placing Y's in existing pipe sewers or surface drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Placing slants or connections in existing masonry sewers drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
360 slants or connections in new masonry sewers or sewers drain	.10	.10	.10	.10	.50	.....	.20	.25	.10
Laying and connecting 3 to 10-in. metal pipe in or outside main trench	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
115 tons steel rods or bars for masonry rein	49.00	35.00	40.00	42.00	35.00	.....	45.00	40.00	60.00
14 manholes on new concretes	30.00	40.00	40.00	40.00	60.00	50.00	45.00	45.00	45.00
7 manholes on new or old sewers	35.00	40.00	40.00	45.00	40.00	50.00	60.00	45.00	50.00
1 manhole on existing masonry sewer	40.00	40.00	50.00	50.00	75.00	60.00	60.00	45.00	50.00
1 sump manhole	50.00	75.00	100.00	50.00	75.00	120.00	70.00	50.00	50.00
8catch basins built	50.00	60.00	40.00	60.00	60.00	.....	40.00	40.00	60.00
40 existing catch basins rebuilt	5.00	10.00	20.00	10.00	30.00	.....	13.00	30.00	30.00
Other brick masonry	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Catch basin traps taken out and reset and catch basin drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Gutttermouths for catch basins or drop inlets cut in existing edgestone	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1 connection between new and existing conduits	5.00	10.00	50.00	10.00	25.00	5,000	50.00	30.00	50.00
170 sq.yd. granite block paving	.50	1.00	1.00	.....	.75	.....	.40	.50	1.00
60 ton crushed stone	1.50	1.50	1.50	3.00	2.00	.....	2.00	1.75	2.50
Placing cradles for pipe crossings for pipes	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
6,400 list value single strength sewer pipe	74%	73%	70%	75%	60%	73%	67%	70%	70%
$100 list value double strength sewer pipe	64%	65%	50%	100%	50%	50%	61%	65%	60%
1 tide gate chamber	25.00	200.00	150.00	50.00	100.00	230.00	200.00	50.00	75.00
170 sq.yd. existing pavement with concrete base rem	.50	.30	1.00	.50	.75	.30	.60	.35	.30
2,030 lin.ft. old sewers removed	.....	.....	.50	.....	1.00	.....	1.00	.10	.....
Supporting and protecting buildings and structures	.....	.....	.....	.....	100.00	100.00	25.00	100.00	.....
4 old catch basins removed, contents masonry, stone work inc	5.00	10.00	25.00	60.00	15.00	.....	10.00	15.00	.....
Extended totals	$36,414	$37,183	$37,985	$41,893	$42,277	$43,782	$43,789	$44,322	$45,962

	J	K	L	M	N	O	P	Q	R
243 lin.ft. 24-in. pipe sewer	$2.75	$3.00	$1.75	$2.00	$2.65	$3.00	$1.75	$1.60	$5.50
887 lin.ft. 18-in. pipe sewer	2.65	3.00	1.75	2.00	2.50	3.00	1.60	1.40	5.20
10 lin.ft. 15-in. pipe sewer	2.00	3.00	1.00	1.50	2.50	2.00	1.00	2.00	4.90
70 lin.ft. 12-in. pipe sewer	1.50	3.00	1.25	1.50	2.00	1.75	1.50	1.50	4.60
10 lin.ft. 10-in. pipe connection with intercepting sewer	2.50	5.00	3.00	3.00	2.50	1.00	1.00	4.00	7.00
1,700 lin.ft. 2 ft., 6 in. x 4 ft., 4 in. concrete sewer	3.50	7.10	3.75	4.00	5.00	3.00	3.50	4.75	9.30
650 lin.ft. 2 ft., 0 in. x 4 ft., 0 in. concrete sewer	2.75	7.85	3.75	4.00	4.00	3.00	2.75	3.50	6.00
100 cu.yd. excavation below grade	2.00	2.00	1.50	1.50	2.00	2.00	.50	3.00	3.00
30 cu.yd. excavation above grade	1.00	2.00	1.00	1.00	2.00	1.75	1.00	3.00	3.00
20 cu.yd. rock excavation	5.00	5.00	5.00	3.00	.....	5.00	3.00	5.00	5.00
200 cu.yd. clean gravel refill	1.25	.....	1.50	2.00	1.75	1.75	1.50	2.00	1.00
Spruce piles under 20 ft. in length	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles 20 ft. to 30 ft. in length, both inclusive	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles exceeding 30 ft. and including 40 ft.	.28	.28	.28	.28	.28	.28	.28	.28	.28
Spruce piles exceeding 40 ft. in length	.35	.35	.35	.35	.35	.35	.35	.35	.35
250 M ft. b.m. spruce lumber for sheeting and shoring	25.00	21.00	25.00	20.00	26.00	20.00	20.00	22.00	25.00
5 M ft. b.m. 2-in. spruce for sheeting and shoring	30.00	26.00	40.00	25.00	.....	23.00	30.00	30.00	30.00
5 M ft. b.m. 3 to 6-in. planed grooved and Georgia pine	40.00	.01	50.00	30.00	.....	23.00	50.00	45.00	40.00
37 M ft. b.m. spruce lumber for pile gaps, platforms	35.00	.01	40.00	35.00	40.00	40.00	30.00	40.00	35.00
3,540 lin.ft. pipe underdrain	.15	.10	.50	.25	.20	.30	.15	.20	.15
1,850 cu.yd., Class A, concrete	7.50	6.00	7.50	8.00	8.00	7.50	8.50	8.00	8.00
Class A, concrete mixed hydrated lime	.50	.50	.50	.50	.50	.50	.50	.50	.50
Class B concrete	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Class C concrete	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
460 lin.ft. 10-in. pipe catch basin drain	.75	.01	.75	1.00	1.50	1.00	.90	.60	2.50
Pipe for chimneys	.15	.15	.15	.15	.15	1.00	.15	.15	.15
100 lin.ft. laying pipe house drain	1.00	.01	.25	1.00	.....	1.00	1.00	.75	2.00
350 lin.ft. relay, reconn., existing house drain, in or outside main trench	1.50	1.00	.40	.50	1.00	.....	.60	.60	1.50
240 lin.ft. relaying, reconnect., existing catch basin drain	.75	1.00	.50	.50	1.25	1.00	1.00	.60	2.00
50 lin.ft. relaying, reconn., existing drain other than house and catch basin drain	1.00	.01	.50	.50	.....	1.00	.50	1.00	.50
50 lin.ft. relaying, reconn., existin drain outside main trench other than house and catch basin drain	1.50	.01	.25	.50	.....	1.00	1.00	1.00	2.00
Placing Y's in existing pipe sewers or surface drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Placing slants or connections in existing masonry sewers drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
360 slants or connections in new masonry sewers or sewers drain	.10	.10	.50	.10	.10	5.00	.10	.10	.10
Laying and connecting 3 to 10-in. metal pipe in or outside main trench	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
115 tons steel rods or bars for masonry rein	50.00	40.00	45.00	60.00	40.00	55.00	80.00	60.00	50.00
14 manholes on new concretes	35.00	40.00	50.00	35.00	60.00	58.00	60.00	45.00	55.00
7 manholes on new or old sewers	40.00	40.00	50.00	50.00	50.00	55.00	75.00	60.00	65.00
1 manhole on existing masonry sewer	40.00	40.00	50.00	50.00	50.00	58.00	60.00	60.00	75.00
1 sump manhole	45.00	40.00	65.00	75.00	70.00	70.00	125.00	100.00	88.00
8 catch basins built	55.00	60.00	57.00	50.00	55.00	60.00	50.00	70.00	50.00
40 existing catch basins rebuilt	20.00	2.00	25.00	10.00	20.00	60.00	35.00	30.00	35.00
Other brick masonry	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Catch basin traps taken out and reset and catch basin drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Guttermouths for catch basins or drop inlets cut in existing edgestone	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1 connection between new and existing conduits	25.00	10.00	50.00	5.00	25.00	10.00	5.00	50.00	25.00
170 sq.yd. granite block paving	1.00	1.00	.45	.50	1.00	1.75	2.00	1.50	.50
60 ton crushed stone	2.00	1.00	1.50	1.75	2.00	1.50	2.25	1.60	1.50
Placing cradles for pipe crossings for pipes	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
6,400 list value single strength sewer pipe	65%	75%	70%	70%	72%	70%	66%	70%	70%
$100 list value double strength sewer pipe	55%	60%	50%	60%	60%	65%	66%	60%	60%
1 tide gate chamber	50.00	100.00	300.00	50.00	150.00	100.00	250.00	150.00	87.00
170 sq.yd. existing pavement with concrete base rem	.35	.25	.50	.50	.25	.50	1.00	.40	.60
2,030 lin.ft. old sewers removed	.25	.10	.25	.25	.....	.15	.05	.40	.50
Supporting and protecting buildings and structures	50.00	5.00	10.00	10.00	.....	.....	10.00	.....	500.00
4 old catch basins removed, contents masonry, stone work inc	12.00	5.00	5.00	10.00	10.00	60.00	10.00	25.00	25.00
Extended totals	$46,258	$47,010	$47,075	$47,158	$49,154	$49,604	$49,799	$50,100	$65,432

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—Mattawamkeag & Northern Railway having surveys made for line from Mattawamkeag to Millinocket and East Millinocket, about 23 miles. Charles W. Mullen and I. B. Wood, Bangor, interested.

Rhode Island—Rhode Island Co. will ask City Council for appropriation of $300,000 for railway from city docks to point of connection with New York, New Haven & Hartford R.R. Edward Gagel, New Haven, Conn., Ch. Engr., New York, New Haven & Hartford R. R. Noted Nov. 11.

New York—Emporium Lumber Co. plans to extend line from Childwood on Adirondack Division of New York Central Railway to Cranberry Lake and thence to Carthage & Adirondack R.R. at Newton Falls.

Georgia—Georgia Railway and Power Co. contemplates extending line from Atlanta to Alpharetta via Roswell and Crabapple. W. H. Smaw, Atlanta, Ga., Pur. Agt.

Alabama—Jackson-Tinney Lumber Co. will soon award contract for logging road extending southwest from Wagley, about six miles. W. J. Tinney, Talladega, Ala., Pres.

Mississippi—Magnolia, Fernwood & Summit Electric Railway having surveys made for new line. Xavier A. Kramer, Magnolia, Engr.

Kentucky—Chesapeake and Ohio Railway plans to build extension up right fork of Beaver Creek, 15 miles. B. T. Jellison, Richmond, Va., Pur. Agt.

Ohio—Cleveland Railway Co. will extend line on Madison Ave. from West 117th St. to Rocky River. George L. Radcliffe, Cleveland, Gen. Mgr.

Ohio—Dover, Millersburg and Western Railway received 20-year franchice to build and operate electric railway in Millersburg; also granted franchise to build electric railway to connect Millersburg with Sugar Creek and Canal Dover. Noted Sept. 23.

Ohio—Ohio Northern Electric Railway will award contract about Jan. 1 for Bucyrus Tiffin electric line . George W. Stewart, Pres.

Ohio—Wheeling & Lake Erie R.R. obtained right-of-way for two-mile spur to circle east boundaries of Canton. W. L. Rohback, Cleveland, Ch. Engr.

Indiana—Goshen, Ft. Wayne & Northern Interurban Railway Co. will build electric railway, Branch A, from Warsaw through Winona Lake, North Webster, Wolf Lake, Albion and Kendallville to Ashley-Hudson; Branch B, from junction at Ligonier through Topeka to Lagrange; Branch C, from Columbia City through Collins, Churubusco, Huntertown and Leo to Grabill. Noted Oct. 21.

Illinois—Joliet and Eastern Traction Co. plans to extend line from Chicago Heights, Ill., to Hammond, Ind.

Illinois—Waukegan & Woodstock Traction Co., recently incorporated, will build interurban line between Waukegan and Woodstock.

Kansas—C. V. Wardell promoting construction of railroad from Greensburg south to connecting line, direct to gulf.

Kansas—Citizens of Kinsley voted to issue $252,000 bonds to aid Athony & Northern Railway to extend line from Trousdale to Kinsley. O. P. Byers, Hutchinson, Kan., Pres. Noted Sept. 30.

Kansas—Hutchinson Interurban Railway Co. will build line on Carpenter St. James E. Humbert, Hutchinson, Kan., Gen. Mgr. and Pur. Agt.

Kansas—Kansas City, Mexico & Orient R.R. applied to State Public Utilities Commission for permission to issue $51,238,000 bonds. Part of proceeds to be used for building line from Wichita to Kansas City. Edward Dickinson, Kansas City, Kan., Pres.

Kansas—Citizens voted $20,000 bonds to aid Oklahoma & Interstate Railway Co. in building lines to connect Columbus with Galena and Commerce, Okla.

Missouri—Kansas City and Tiffany Springs Railway Co., recently incorporated, will build railway from Kansas City, Mo., to Tiffany Springs, Platte County, about 15 miles.

Missouri—H. W. Knight promoting construction of railroad from Keokuk to Jefferson, will connect with Chicago & Alton R.R. at main line.

Texas—E. P. Turner and associates, Dallas, Tex., plan to build railway from Denton to Krum, about 15 miles.

Texas—Texas and Pacific Railway will build steam railway from point on main line to Seminole. Noted Sept. 30.

Oklahoma—Election will be held Nov. 23 to vote on $15,000 bonds for railway from Columbus and Baxter Springs to Galena for Oklahoma and Interstate Railway. John R. Rose, Oklahoma City, Pres. Noted Sept. 30.

Oklahoma—T. C. Alley and W. T. Crossland, Oklahoma, contemplate building interurban electric line between Coalton, Henryetta and Kusa.

Oklahoma—Citizens of Bartlesville and Pawhuska plan to build railroad, about 43 miles, to connect cities. Estimated cost, $774,000.

Idaho—Lewiston-Clarkston Transit Co. received franchise from Council to build electric railway in Asotin County from city limits of Clarkston on Sixth St. to Highland and 13th St., 1½ miles.

Washington—Cascade Lumber Co., North Yakima, plans to build railroad, 12 miles, with eight miles of branches and spur tracks.

Washington—Tacoma Railway and Power Co., Tacoma, received 50-year franchise to extend line from Ft. Steilacoom Insane Asylum to town of Steilacoom, about two miles. G. W. Rounds, Tacoma, Gen. Supt. Noted Sept. 30.

Oregon—Great Southern R.R. Co. contemplates extending line to connect at The Dalles with steamers on Columbia River. J. G. Heimrick, The Dalles, Ore., Gen. Mgr.

Oregon—Oregon-Washington R.R. & Navigation Co. will renew tracks on various parts of main line between Portland and Huntington. Estimated cost, $800,000. J. B. O'Brien, Portland, Ore., Vice Pres. and Gen. Mgr.

Oregon—Pacific Power and Light Co. received 30-year franchise to extend line on Franklin Ave., Astoria. James E. Davidson, Portland, Gen. Mgr. Noted Nov. 4.

California—Contract will soon be awarded by Board of Public Works for Church St. extension of municipal railway system. M. M. O'Shaughnessy, City Engr.

California—Southern Pacific Railway has taken over Butte County R.R. and will extend line to Westwood to connect with Fernley & Lassen R.R. Co. W. Hood, San Francisco, Calif., Ch. Engr.

Quebec—Canadian Pacific Railway, Montreal, will build spur for Aetna Chemical Co. of Canada, Ltd. Grant Hall, Winnepeg, Man., Vice Pres. and Gen. Mgr.

Ontario—Canadian Pacific Railway will build sidings for Canadian Explosives, Ltd. Grant Hall, Winnepeg, Man., Vice Pres. and Gen. Mgr.

Ontario—Michigan Central R.R., Detroit, Mich., granted permission to build industrial siding for Norton Co., Short Line, Chippewa. G. H. Webb, Ch. Engr., Michigan Central R.R., Detroit, Mich.

Ontario—National Trans-continental Railway (Canada Government Railways) will build three-mile line in Neelands, Ont. C. B. Brown, Moncton, N. B., Ch. Engr., and F. P. Gutelius, Moncton, N. B., Gen. Mgr.

Alberta—Canadian Northern Railway, Toronto, will build spur for Premier Coal Co., Ltd. William Mackenzie, Toronto, Ont., Pres.

LIGHT, HEAT AND POWER

Proposed Work

Vt. Middlebury—A company will be organized to be known as the Central Power Co. of Vermont with capital stock of $1,000,000 to develop water power on the East Middlebury River. C. H. Thompson, Montpelier, interested.

Mass., Holyoke—Bond issue of $100,000 for improving municipal electric-light plant authorized by Board of Aldermen.

N. Y., Beacon—(Official)—Bids will be received by John B. Riley, Supt. of State Prisons, Capitol, Albany, until noon, Nov. 23, for heating work at Matteawan State Hospital, Beacon. (See adv.)

N. Y., Elmira—Morrow Mfg. Co., plans to build a new heating plant for its factories. Estimated cost, $100,000.

N. Y., Monticello—Murray Electric Light and Power Co. will extend its transmission lines from Monticello to Hurleyville. Company also plans transmission line to Centerville on south and Woodbourne on north.

N. J., Lambertville—The Lambertville Public Service Co., recently organized, has acquired the plant and system of the Lambertville Light, Heat and Power Co. and plans extensive improvements in the power system and station.

N. J., Stratford—Clementon Electric Light Improvement Co. of Laurel Springs is negotiating with town authorities for installation of electric-lighting system.

Md., Easton—(Official)—Bids will be received until Dec. 30 by Newton Electric Co. for electric transmission system from Easton to Oxford, about 15 miles. Noted Nov. 4.

Va., Hopewell—Stuart, James & Cook, Engrs., 50 Church St., New York, N. Y., plan to install distributing system in Hopewell.

Fla., West Palm Beach—A site has been acquired by Frank D. Mosier, Trenton, N. J., and associates, on which they plan to build a gas plant.

Miss., Marks—City has granted James Fitzel 20-year franchise to construct and maintain electric-light plant.

Ohio, Cincinnati—See item under "Water Works."

Ohio, Lima—Bonds for $60,000 defeated by citizens for municipal electric-light plant and lighting system.

Ohio, Marietta—(Official)—Citizens defeated $45,000 bonds for municipal electric light plant. Noted Oct. 7.

Ohio, Newark—City plans to improve municipal electric-light plant. Estimated cost, $30,000.

Ill., Belleville—Plans being considered by City Council for municipal electric-light plant.

Wis., Madison—Wisconsin River Power Co. plans to build transmission lines in Sauk, Dane and Columbia Counties.

Wis., Shawano—(Official)—Citizens voted $60,000 bonds for dam and hydro-electric power plant on Wolf River. Noted Nov. 11.

Kan., Perry—Bonds for $5,000 voted for installing new equipment in municipal electric-light plant.

Neb., Heartwell—See item under "Water works."

Mont., Ryegate—Plans being considered for electric-lighting system.

Mo., New Madrid—Bids will be received by W. H. Copeland, City Clk., until Nov. 29, for additions to electric-light plant.

Mo., Trenton—Trenton Gas and Electric Co. plans an expenditure of $100,000 for improvements to its plant.

Ark., Newport—Plans being considered by Arkansas Light and Power Co. for electric transmission line from Newport to Puckerman.

Tex., Dallas—Plans being prepared for power plant for Union Terminal Co. Estimated cost, $40,000.

Tex., Port Arthur—Port Arthur Gas and Power Co., recently incorporated with $250,000 capital stock, plans to build a gas plant and electric power station.

Okla., Westville—Election will soon be held to vote on $10,000 bonds for improving electric-light plant.

Colo., Golden—Jefferson County Power and Light Co. plans to build transmission line to Morrison, about eight miles, and install distributing system.

Idaho, Hailey—Installation of a hot water heating system contemplated by E. J. Gordon and associates. Estimated cost, $50,000.

Idaho, Victor—City plans to install electric-light plant. Bonds for $4,000 authorized for this purpose.

Ore., Pilot Rock—L. K. Harlan has applied to City Council for franchise to install electric-light plant in Pilot Rock.

Que., Montreal—Laurentide Power Co., Ltd., recently incorporated with $10,500,000 capital stock, plans to construct and operate light, heat and power plants. W. F. Chipman, interested.

Ont., London—City Council plans to improve lighting system on Richmond St. Estimated cost, $10,000.

Ont., Niagara Falls—Plans being prepared for government power house to be constructed between Queenston Heights and Niagara Falls. It is planned to develop 300,000 hp. by using surplus waters of Welland Canal.

Ont., Welland—City plans to improve municipal electric-light plant and purchase energy from Ontario Hydro-Electric Power Commission. Estimated cost, $14,000.

Bids In and Contracts Awarded

Mass., Southbridge—Contract for two-story, 56x67-ft. powerhouse for Hamilton Woolen Co. awarded to E. D. WARD, Worcester.

N. J., Paterson—Contract for electric-light and power plant in high school building awarded to BENNETT & BROWN, Paterson. Noted Sept. 23.

Penn., Pittsburgh—Contract for heating and ventilating system for City-County Bldg. awarded to BAKER, SMITH & CO., at $137,500.

Penn., Weatherly—Contract for transmission line from Laurytown to Weatherly for Middle Coal Field Poor District awarded to RODNEY D. ALLEN, Philadelphia, at $8,650.

Md., Baltimore—Contract for power plant and heating system for group of buildings at Johns Hopkins University awarded to ENTERPRISE STEAM AND HOT WATER HEATING CO., 407 North Howard St., Baltimore.

N. C., Stantonsburg—FAIRBANKS, MORSE & CO., Atlanta, Ga., awarded contract for municipal electric-light plant.

Ill., Springfield—Western Cartridge Co. awarded contract for power plant to URBAUER-ATWOOD HEATING CO., St. Louis, Mo. Estimated cost, $100,000.

Wis., Chippewa Fal's—Wisconsin-Minnesota Light and Power Co., Eau Claire, awarded contract for power dam and concrete dam and powerhouse on Chippewa River to KELSEY-BREWER CONSTRUCTION CO., Michigan Trust Bldg., Grand Rapids. Estimated cost, $1,000,000. Noted Nov. 11.

Neb., Du Bois—Contract for transmission line between Pawnee City and Du Bois awarded to KORSEMEYER CO., Lincoln.

Tex., El Paso—Contract for heating system in new high school awarded to ELLIOTT ENGINEERING CO., El Paso, at about $52,000.

Okla., Haworth—Contract for electric-light plant in Haworth awarded to FRANK McMILLAN, at $5,000.

Calif., San Jose—Contract for steel light tower awarded to GOLDEN GATE IRON WORKS, San Francisco, at $6,087.

Man., Reston—Contract for electric generating plant and distribution system awarded to ACCUMULATOR LIGHTING CO., Winnipeg.

BRIDGES

Proposed Work

N. Y., Honeoye Falls—Village plans to raise $6,000 for concrete bridge over Honeoye Creek.

N. J., Atlantic City—(Official)—Bids will be received by Boards of Chosen Freeholders of Atlantic and Burlington Counties, G. A. R. Hall, New York Ave., Atlantic City, N. J., until noon, Dec. 18, for bridge over Mullica River at Chestnut Neck near New Gretna. (See adv.)

N. J., Elizabeth—Plans prepared for two bridges over roads in Vaux Hall section of Union Township for Rahway Valley Co. J. S. Caldwell, Kenilworth, Gen. Mgr.

N. J., Plainsboro—Pennsylvania Railroad will build new bridge on its Trenton Division at Plainsboro.

Penn., Harrisburg—Loan of $300,000 voted by citizens for bridge construction.

Va., Bristol—Southern Railway plans to build steel bridge at English St. crossing. Estimated cost, $7,000.

Va., Hanover—(Official)—Bids will be received at Clerk's Office Court House, until noon, Nov. 24, for reinforced-concrete bridge over Little River, Hanover County. G. P. Coleman, Richmond, State Highway Comr.

Va., Norfolk—Construction of bridge at Falkland St. in connection with improvement of Newton Creek contemplated by city. About $10,000 available for this work.

Va., Stuart—Bids will be received until Nov. 23 by Commissioners of Patrick County for superstructure of steel bridge over Dam River about six miles from Meadowfield. G. P. Coleman, Richmond, State Highway Comr. Noted Aug. 12.

Ala., Selma—Bids will be received until Dec. 13 by Commissioners of Dallas County for nine steel bridges.

Miss., Leakesville—Bids will be received by Greene County Supervisors until Dec. 6 for steel and iron highway bridge across Chickasawhay River. S. R. McKay, Clk. Noted Oct. 21.

Tenn., Harriman—(Official)—Bids will be received by S. A. Breazeale, Rd. Comr., until Nov. 20, for concrete bridge across Emory River. Estimated cost, $50,000. Noted Nov. 11.

Tenn., Paris—Plans being considered by Nashville, Chattanooga & St. Louis Railway for reinforced-concrete viaducts at South Market and Dunlap St.

Ohio, Monroe—Election will be held Dec. 6 to vote on $60,000 bonds for bridge over Raisin River. Noted Nov. 11.

Mich., Grand Rapids—City Council contemplates concrete culvert over Coldbrook Creek from west line of Lafayette Ave. west to east end of present culvert.

Ill., Chicago—(Official)—Bids will be received by John McGillen, Clk. of Sanitary District of Chicago, Room 700, 910 South Michigan Ave., until noon, Dec. 2, for superstructures of Calumet-Sag Bridges. (See adv.)

Wis., Westpoint (Lodi post office)—Bridge will be constructed over Wisconsin River at an estimated cost of $48,000, half of which will be borne by state and half by county.

Iowa, Des Moines—City Council plans to build bridge across Des Moines River at North St.

Mo., Chillicothe—(Official)—Bids will be received by J. Broaddus, Bridge Comr., Courthouse until noon, Dec. 5, for five reinforced-concrete bridges.

Mo., Hillsboro—See item under "Streets and Roads."

Ark., Clarksville—Quorum Court of Johnson County authorized construction of four steel bridges.

Ark., Fulton—See item under "Streets and Roads."

Ark., Montrose—An appropriation of $8,000 made by Commissioners of Ashley County Court for steel bridge.

Ark., Piggott—County will build several steel bridges W. O. Irby, County Judge.

Ark., Sheridan—County will build 130-ft. steel bridge across Saline River.

Tex., Eastland—Bonds for $8,000 voted by citizens for improving bridges and streets.

Tex., Huntsville—Commissioners of Walker County, Huntsville, and Trinity County, Groveton, will build bridge across Trinity River between Walker and Trinity County. Estimated cost, $50,000.

Okla., Poteau—Bonds for $50,000 voted by citizens of Le Flore County for bridges and roads.

Colo., Walsenburg—Bridge will be constructed across Huerfano River, north of Walsenburg. Estimated cost, $12,500.

Wash., North Yakima—Bridge will be constructed on North Sixth Ave. over ditch of Pacific Power and Light Co. by City and County Commissioners. Estimated cost, $10,000.

Ore., McMinnville—Plans being prepared for concrete viaduct through San Cozine Creek. Estimated cost, $15,000.

Ore., Portland—Bids will be received by A. L. Barbur, County Audr., until Nov. 20, for reinforced-concrete viaduct for extension of Union Ave. Estimated cost of viaduct, $53,000, fill, $13,000.

Ore., Salem—State Highway Department, Salem, prepared plans for bridge across Willamette River at Salem. Estimated cost, $230,000.

Calif., Bridgeport—Bids will be received by Board of Supervisors of Mono County until noon, Jan. 3, for steel bridge across East Walker River, six miles north of Bridgeport.

Bids In and Contracts Awarded

N. Y., Binghamton—All bids received Oct. 4 for replacing bridge over Big Snake Creek near Corbettsville rejected. Noted Sept. 30.

N. Y., Conklin—Contract for bridge over Little Snake Creek awarded to BINGHAMTON BRIDGE CO., Press Bldg., Binghamton, at $4,000.

N. Y., Ft. Edward—Keith Guthrie, Schenectady, at $23,500 submitted lowest bid for bridge over Hudson River at Ft. Edward. Noted Sept. 30 and Oct. 14.

Penn., Johnstown—(Official)—Contract for Horner St. bridge awarded to JOHN L. ELDER, Ebensburg, at $38,358. Noted Aug. 19 and Oct. 28.

Penn., Mooresburg—Contract for concrete bridge for Philadelphia & Reading Railway awarded to C. H. REINARD, Bloomsburg. Noted Oct. 21.

Penn., Norristown—James Smith, Perkiomenville, awarded contract for stone arch bridge over Goshenhoppen Creek, Frederick Township.

N. C., Biltmore—C. W. REQUOTH CO., Charlotte, at about $13,000, awarded contract for bridge across Swannanoa River. Noted Oct. 21.

Fla., Arcadia—Contract for ten concrete bridges awarded to LUTEN BRIDGE CO., at about $20,000. Noted Sept. 30.

Miss., Columbus—Contract for 100-ft. steel bridge and one concrete culvert awarded to H. C. TERRY, Columbus. Noted Oct. 21.

Tenn., Elizabethtown—(Official)—Contract for bridges in Carter County awarded to LUTEN BRIDGE CO., Indianapolis, Ind., at about $47,000. Noted Oct. 21.

Ohio, Cincinnati—RUNCK BROS., First National Bank Bldg., Cincinnati, at $11,994, awarded contract for widening existing bridge on Montgomery Rd. Noted Oct. 21.

Wis., Beloit—Contract will soon be awarded for bridge in South Beloit and Rockton Township. Estimated cost, $10,750.

Wis., Wascott—Contract for concrete bridge over St. Croix River awarded to C. J. ST. ONGE, at $4,185.

Kan., Salina—Contract for bridge over Smoky River awarded to WILMARTH & ZERBE, Salina, at $4,643. Noted Oct. 21 and Nov. 4.

Mont., Miles City—Contract for steel bridge across Fallon Creek awarded to SECURITY BRIDGE CO., Billings, at $9,480.

Mont., Terry—SECURITY BRIDGE CO., at $5,000, awarded contract for bridge across Cedar Creek.

Mo., Kansas City—Contract for reinforced-concrete viaduct at 77th St. and the Paseo awarded to H. H. HANNENKRATT, at about $65,000. Noted Sept. 2.

Okla., Cherokee—KANSAS CITY BRIDGE CO., Kansas City, Mo., at $22,243, awarded contract for 13 bridges.

Idaho, Boise—Contract for bridge across Snake River at Grandview awarded to MISSOURI VALLEY BRIDGE AND IRON CO., Denver, Colo., at $19,850. Noted Oct. 14 and Nov. 11.

Calif., Sacramento—Bids were received Nov. 1 for reinforced-concrete bridge across Myers Creek, Imperial County, as follows: Holland Construction Co., San Diego, $15,600; Forest City Paving and Construction Co., Live Oak, $17,885; Robert Shearer & Co., Los Angeles, $28,748. Noted Oct. 21.

Calif., Willows—Contract for reinforced concrete bridge at Newville awarded to COTTON BROS., Oklahoma, Okla., at $6,000.

Ont., Darling—Contract for bridge on Toronto-Sudbury line of Canadian Pacific at Darling awarded to FOUNDATION CO., Montreal, Que. Estimated cost, $50,000.

WATER WORKS

Proposed Work

Mass., Lowell—Report has been submitted estimating cost of extending water system to Collinsville at about $50,000.

Mass., West Mansfield—W. C. Byrne Co. estimates the cost of water system connecting with Skinners Crossing at $26,000.

N. Y., Batavia—Citizens voted $175,000 bonds. Part of proceeds will be used for filtration and pumping plants.

N. Y., Minoa—(Official)—Citizens defeated $28,000 bonds for water system. Noted Nov. 4.

N. Y., Port Washington—Plans prepared by Harold G. Stevens, Engr., 150 Nassau St., New York, N. Y., for water system for Port Washington Water District.

N. J., South Amboy—City Council is considering installation of municipal water works.

Penn., Dalmatia—(Official)—Dalmatia Water Co. will build water system. Estimated cost, $10,000. Noted Nov. 4.

Penn., Morrisville—Common Council planning installation of filtration plant at city water works.

Del., Media—City plans to improve water system. Estimated cost, $70,000.

S. C., Charleston—Bids will be received by L. M. Pinckney, 56 Broad St., until Nov. 28, for terra cotta pipe drains and appurtenances in portions of Romney, King, Poplar and other streets.

Fla., Travares—City contemplates holding election to vote on bonds for water works.

Miss., Wesson—Bids will be received by P. S. Burt, City Clk., until Dec. 7, for water system and electric light plant. Estimated cost, $18,000. Noted Sept. 9.

La., Shreveport—See item under "Sewers."

Tenn., Camden—City plans to build water system.

Tenn., Henderson—Bids will be received by Mayor and Board of Aldermen until Dec. 3 for water system. Frank L. Wilcox, Syndicate Trust Bldg., St. Louis, Mo., Engr.

Ohio, Albion—Election will be held Dec. 14 to vote on $10,000 bonds for water system.

Ohio, Barnesville—(Official)—Citizens voted for improving water system, including filtration plant and standpipe. Estimated cost, $25,000. M. Knowles, Pittsburgh, Penn., Engr. Noted Oct. 22.

Ohio, Cincinnati—Citizens defeated $400,000 bonds for high pressure fire service. Noted Sept. 30 and Oct. 14.

Ohio, Columbus—Bids will be received by George A. Borden, Dir. of Pub. Ser., until Dec. 1, for supplying pumps and installing necessary fittings at pumping station.

Ohio, Newark—Bonds for $30,000 voted for improving water system.

Ohio, Wadsworth—Citizens voted to purchase light and water plant for $85,000. H. E. Hiers, City Clk.

Ind., Bloomington—Plans prepared for extension of municipal water works plant.

Ind., Michigan City—Bond issue of $75,000 authorized for water works improvements.

Ind., Morocco—Public Service Commission will issue bonds for water works.

Ind., Van Buren—Bonds for $8,000 will be sold. Proceeds will be used to install water system.

Mich., Escanaba—Election will be held Nov. 22 to vote on amendment, permitting the issue of bonds for water works.

Ill., Rankin—(Official)—Citizens voted $6,000 bonds for water system. Noted Oct. 21.

Ill., Waukegon—Report submitted by John Chester of Chester & Fleming, Consult. Engr., Pittsburgh, Penn., estimating cost of filtration plant from $80,000 to $100,000.

Wis., Oshkosh—Council retained H. A. Allen, Consult. Engr., Chicago, Ill., to prepare plans for filtration plant for municipal water system.

Iowa, Iowa City—Construction of reservoir with capacity of 700,000-gal. recommended by J. J. Dunlap, Professor of Iowa University.

Iowa, Marshalltown—Election to vote on $12,000 bonds for extending water mains under consideration.

Minn., Swanville—Citizens voted $9,000 bonds for water system.

Kan., Oswego—(Official)—Citizens voted bonds for extension and improvement of water system. Estimated cost between $28,000 and $30,000. Noted Nov. 4. J. C. Moore, Joplin, Mo., Engr.-in-Charge.

Neb., Heartwell—Franchise granted to Heartwell Water, Light and Power Co. for electric light plant and water system. C. Gilson, Minden, Secy.

Wyo., Powell—City will erect water works system at cost of $20,000. Contract will be let in fall. Green Engineering Co., Spokane, Wash., Engr.

Mont., Townsend—Election will be held to vote on $30,000 bonds for municipal water system.

Mo., Cape Girardeau—City will issue $75,000 bonds for municipal water works.

Mo., Lees Summit—Election will be held Nov. 23 to vote on $28,000 bonds for water system.

Tex., Ft. Stockton—Election will be held Dec. 1 to vote on $28,000 bonds for water system.

Tex., San Angelo—See item under "Light, Heat and Power."

Tex., Tyler—Plans being prepared by H. E. Elrod, Consult. Engr., Dallas, for water system. Estimated cost, $250,000.

Okla., Haworth—City voted $17,000 bonds for water works plant.

Idaho, Hailey—According to press reports E. J. Gordon, Hailey, contemplates building of pipe line from Hailey Hot Springs to Hailey. Estimated cost, $40,000.

Idaho, McCammon—Election will soon be held to vote on $20,000 bonds for water system.

Wash., Auburn—Ordinance passed for installation of water mains in District No. 12.

Wash., Seattle—Bids will soon be received for water mains in downtown streets. Estimated cost, $27,000.

Wash., Seattle—Resolution passed providing the installation of water mains on Dexter Ave., from Wheeler to Aloha St. Estimated cost, $14,000.

Ore., Fossil—Bids will soon be received for replacing wooden water main between The Springs and reservoir with steel mains.

Ore., Lakeside—Water system will be installed by Milo Pierson and John D. Goss. Estimated cost, $10,000.

Ore., Seaside—Election will be held in December to vote on $50,000 bonds for water system.

Ont., London—City will construct 10-in. water main on Carling St. and also plans to lay piping to additional wells and springs and to install pumps to extend water collecting system.

Alaska, Anchorage—Alaska Engineering Commission will build a water system.

Bids In and Contracts Awarded

N. Y., Buffalo—Contract for 12-in. high pressure pipe line awarded to DARK & CO., 654 Main St., Buffalo, at $12,300.

N. Y., New York—(Official)—Board of Water Supply awarded contract for two buildings at Hill View reservoir under Contract No. 128 to WILLIAM H. EAGAN, Lexington Ave. and 25th St., New York.

N. Y., Waterbury—Contract for water system awarded to WILLIAM G. FRITZ CO., at $25,554.

N. Y., White Plains—William H. Green at $4,034, submitted lowest bid for extension of water mains to Byram Lake.

Tenn., Columbia—Contract for filtration plant of 1,000,000-gal. capacity per 24 hours awarded to INTERNATIONAL FILTRATION CO., Chicago, Ill.

Tenn., Maryville—Contract for the construction of water works system awarded to F. D. LISCOMB.

Ohio, Dayton—Contract for 2,000,000-gal centrifugal pump awarded to DE LAVAL CO., at $31,000.

Mich., Sparta—(Official)—Contract awarded to PITTSBURGH-DES MOINES STEEL CO. for construction of 65,000 gal. tank on 86-ft. tower. Noted Nov. 4.

Ill., Virginia—Contract for drilling wells at water works awarded to C. P. BRYANT & CO., Chicago. Estimated cost, $15,000.

N. D., Grand Forks—Contract for water main No. 77 on Viets Ave. from Lewis Blvd. to Conkling Ave. awarded to CARROLL BROS.

Mo., Poplar Bluff—Contracts for water system awarded to UNITED ENGINEERING CO., 327 South La Salle St., Chicago, Ill., at $46,400, for brick power house, machinery foundations, water tubular boiler, feed pump and heater, condenser, two 300-hp. Skinner una flow engines, General Electric generators, pole lines and station wiring, and to WASCO SUPPLY CO., St. Louis, at $9,480, for pole line supplies and materials.

Mo., St. Louis—Bids were received Nov. 12 by Board of Public Service for steam pump, valves and fittings and altering pumping rooms as follows: Modern Heating Co., St. Louis, $10,777; Urbauer Atwood Heating Co., St. Louis, $9,998; Edwin P. Ambler, St. Louis, $11,263.

Idaho, Council—(Official)—E. L. Phelps, Weiser,, at $11,100, submitted lowest bid for water system. Noted Oct. 22.

Calif., San Francisco—Official)—Contract for 3,975 bbl. of cement for Hetch Hetchy diversion dam to direct Tuolumne River into 20-ft. diversion tunnel past main dam awarded to STANDARD CEMENT CORPORATION, $2.37 per bbl.

Ont., Markham—Contract for pipes, hydrants and valves for water system awarded to NATIONAL IRON WORKS, LTD., Cherry St., Toronto, at $5,750.

Ont., Toronto—Contract for the supply and installation of valves and other mechanism at the main pumping station awarded to DRUMMOND McCALL & CO., 373 Front St., E, at $9,530. Noted Nov. 4.

SEWERS

Proposed Work

Mass., Winchendon—Report submitted by R. Fletcher, Professor of Dartmouth College, Hanover, estimating cost of sewer system at $10,000.

Conn., Waterville—Bonds for $300,000 will be sold for trunk sewer from Waterville to terminus of Waterbury sewers.

N. Y., Suffern—Citizens voted to build sewer system.

N. J., Asbury Park—Bids will be received at office of Neptune Township Committee, 75 South Main St., Ocean Grove, until 8 p.m., Nov. 22, for about 10,800 lin.ft. of 6- to 10-in. vitrified pipe sewers and 2,400 lin. ft. of 4-in. vitrified pipe sewer connections.

N. J., Asbury Park—Plans approved for sewer extension in Myrtle and Bangs Ave., section of Neptune Township.

N. J., Caldwell—Citizens voted to extend sewer system.

N. J., Jersey City—Bids will be received by City Commissioners until 2 p.m., Dec. 2, for pipe sewer in Wade St. to connect with sewer in Ocean Ave.

N. J., Manasquan—State Board of Health ordered city to improve sewage-disposal plant. William F. Lefferson, Mayor.

N. J., Newark—Bids will be received by Board of Street and Water Commissioners until Nov. 24 for Valisburg sewers, southwesterly section, and Front St., Arlington Ave. and Greenwood Lake Railroad sewers.

Penn., Sharon—Bonds for $185,000 for sewage-disposal plant defeated by citizens. Noted Oct. 14.

Md., Baltimore—Bids will be received by Board of Awards, City Hall, until Nov. 24, for Section No. 1, Waverly trunk sewer and lateral sewers in District No. 34-D, Contract No. 158 and 169.

W. Va., Kenova—(Official)—Citizens voted $55,000 bonds for sewer system. Noted Oct, 21.

Fla., Ft. Pierce—Ordinance providing for $25,000 bond issue for extending sewer system passed by City Council.

La., Shreveport—Bonds for $1,200,000 voted for sewer and water systems.

Tenn., Chattanooga—North Side Business Men's League will build new sewer. J. S. Bell, Pres.

Tenn., Kingport—City plans to build sanitary sewer system.

Tenn., Memphis—City contemplatess new sewer on water front to divert drainage from front of levee.

Ky., Lexington—Citizens voted $35,000 bonds for sewers.

Ky., Owensboro—Citizens voted $250,000 bonds for sewer system. Noted Oct. 21.

Ky., Paducah—(Official)—Citizens defeated bonds for outfall sewer, District No. 3, Contract No. 1. Noted Aug. 12 and 26.

Ohio, Cuyahoga Falls—Bonds for $60,000 voted for sewage-disposal plant. Noted Oct. 7.

Ohio, Dayton—Citizens voted $1,000,000 bonds. Part of proceeds will be used for sewer construction.

Ohio, East Liverpool—Plans for Sewer District No. 3, east end, approved by City Council.

Ohio, Marion—Bids will be received by J. H. Cheney, Dir. of Pub. Ser., until Nov. 24, for sanitary and storm sewers in Gill Ave., Herman and Senate St.

Ohio, Tiffin—City ordered by Board of Health to build new sewage-disposal plant. Estimated cost, $500,000.

Ohio, Toledo—Bids will be received by Board of County Commissioners until Nov. 26 for main sanitary sewer No. 13.

Ill., Calumet—City plans to install sewer system between 87th, Halstead, 95th and Lake Michigan St. Estimated cost, $665,000.

Ill., Decatur—Plans presented to City Commissioners by J. S. Waterfield Sanitation Co. of Illinois, for sewage treatment plant. Estimated cost, $180,000.

Ill., Dixon—Bids will be received by F. D. Whipp, Fiscal Superv., Springfield, until 3 p.m., Nov. 29, for concrete tunnels and storm water and sanitary sewers at State Epileptic Colony near Dixon.

Minn., Duluth—City Council authorized construction of sanitary sewers in Vineland and Meadow St. and Boundary Ave., 16th Alley west from Raleigh to Sherburne St. and Belmont Alley from Chester Park to Parkland Ave.

S. D., Winner—Bonds for $10,000 voted for sewer system. Noted Oct. 28.

Mont., Townsend—Election will soon be held to vote on $30,000 bonds for sewerage system. L. Poole, City Engr.

Mo., Joplin—City plans to improve sewer system.

Mo., Kirksville—Bids will soon be received for sewer in District No. 3. Estimated cost, $7,300. C. V. Downing, City Engr.

Tex., El Paso—Plans being considered for storm sewer.

Wash., Seattle—Contract will soon be awarded for sewers in Alonzo Ave., N. W., from West 70th to West 67th St. and West 67th St. from Alonzo Ave., N. W., to 14th Ave., N. W. A. H. Dimock, City Engr.

Ont., London—City Council plans to lay about 5,000 ft. of 8- to 12-in. sanitary sewers.

Bids In and Contracts Awarded

N. Y., New Rochelle—Contract for sewer at Hudson Park awarded to A. SOLIMENE, New Rochelle, at $7,417. Noted Sept. 23.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids were received Nov. 10 for making repairs to barrel and box sewers at (a) 26th St. and North River, 37th St. and East River, and 110th St. and East River, (b) 158th St. and North River, Third St. and East River, Stanton and Rivington St., East River as follows: Lawrence Construction Co., (a) $6,502, (b) $5,641; E. A. Riverside Construction Co., (a) $5,818, (b) $5,077; P. J. Kearns, (a) $7,189, (b) $5,886. Noted Nov. 4.

N. J., Perth Amboy—(Official)—Contract for sewer systems in Cornell St. and Compton Ave. awarded to ROHR & POULSEN. Noted Nov. 11.

D. C., Washington—Contract for Section No. 2, Hillbrook Service sewer awarded to WARREN F. BRENIZER, 611 Fourth St., N. E., Washington, at $6,000.

Va., South Boston—City will improve sewer system by day labor. Estimated cost, $7,000.

Ohio, Cleveland—Contract for sewer in East 123rd St. awarded to FRESHWATER CONSTRUCTION CO., at $4,600; sewers in Western Ave. to CONGER HELPER REALTY CO. at $4,350.

Ohio, Wilmington—Contract for sewer work awarded to BOYD & COOK, Dayton, at $6,498.

Ill., Ottawa—Contract for sewer work awarded to A. C. SHREITER, Manitowoc, Wis., at $10,000.

Ill., Upper Alton—Contract for storm and sanitary sewers at Alton State Hospital awarded to MYERS CONSTRUCTION CO., St. Louis, Mo., at $21,370; tunnel work to STRUBEL & HELMICK, Alton, at $53,860. Noted Oct. 14.

Wis., Oshkosh—(Official)—J. Rasmussen & Sons Co. submitted the lowest bid for sewer in Seventh St. from Michigan St. west to Summit. George F. Newmann, Asst. Engr.

Wis., Racine—Contract for Albert and Tenth St. sewer awarded to H. C. HANSON, and Blake Ave. sewer to PETER G. PETERSON.

Iowa, Mason City—(Official)—Inter Mountain Bridge and Construction Co. submitted lowest bid for sewage-disposal plant of Imhoff type. Estimated cost, $70,000. Noted Aug. 12.

Neb., Hastings—(Official)—Contract for sewer construction in Districts No. 71, 72 and 73 awarded to E. R. BING, Hastings, at $7,202. Noted Nov. 4.

Neb., Haverlock—(Official)—Contract for sewers in three districts awarded to J. S. HAMILTON. Noted Oct. 21.

S. D., Dell Rapids—Contract for 17 blocks of sewers awarded to FANEBUST BROS., Sioux Falls.

Mo., Webster Groves—Contract for storm water sewer between Rock Hill and Big Bend Rd., Sylvester and Lakewood Ave. awarded to JOHN F. McMAHON, at $28,000.

Colo., Arvada—Contract for sewer system awarded to GIBBONS CONSTRUCTION CO., Denver. Estimated cost, $30,000.

Colo., Hugo—Contract for sewer system awarded to GORDAN & TAYLOR CONSTRUCTION CO., Denver, at $10,100.

Wash., Harrington—Bids were received for sewer system as follows: Fire Security Bridge Co., Lewiston, Idaho, $5,136; J. W. Hill & Co., 1709 Main St., Spokane, $5,245; H. De Camp, Spokane, $5,922. Noted July 29.

Ore., Portland—Contract for reconstructing wood box sewer in Mill and Water St. awarded to J. P. O'NEILL, on a revised bid at $14,596. Noted Nov. 11.

Calif., El Centro—JAMES KENNEDY, 901 Washington Bldg., Los Angeles, at $206,199, awarded contract for El Centro-Imperial sanitary sewer system.

Calif., Richmond—City Council awarded contract to RICHMOND DREDGING CO., at $92,844, for sewer system. Noted Oct. 21.

Ont., Hamilton—Contract for construction of sewer system awarded to J. J. ARMSTRONG, 116 Burris St. Noted Oct. 21.

Ont., St. Thomas—Contract for sewage-disposal plant awarded to A. E. PONSFORD, LTD., at $8,809. Noted July 29.

Ont., Toronto—Contract for the construction of sewers on Clendennan, Marie, Vine and Symnot St. awarded to AGNEW CO., 606 Avenue Rd., at $8,593.

GARBAGE

Proposed Work

Okla., Bartlesville—Bids will soon be received for garbage incinerator. Estimated cost, $6,500. John Johnstone, Comr. of Finance. Noted Oct. 14.

Bids In and Contracts Awarded

N. J., Newark—Contract awarded to NEWARK PAVING CO., Newark, at $898,200, for collecting and disposing of refuse for five years. Noted Oct. 28.

Ohio, Alliance—City awarded contract to SANITARY SERVICE CO. for handling garbage.

Tex., San Marcos—Contract awarded to JONES BROS., Macon, Ga., for garbage incinerator. Estimated cost, $35,000. Noted Nov. 4.

Ont., Toronto—City awarded contract to GEORGE WEBB, Toronto, for garbage incinerator. Estimated cost, $84,500. Noted Nov. 4.

STREETS AND ROADS

Proposed Work

Vt., Brattleboro—Construction of road from Brattleboro to Bennington under consideration. Estimated cost, $125,000.

Mass., Boston—(Dorchester)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 19, for asphalt or bitulithic pavement in Eric Ave., Dorchester.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., Room 511, City Hall Annex, until noon, Nov. 19, for asphalt or bitulithic pavement in Vista St., West Roxbury.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., Room 51, City Hall Annex, until noon, Nov. 19, for asphalt or bitulithic pavement in Augustus Ave., West Roxbury.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., New York, until 2 p.m., Nov. 23, for improving a number of streets and avenues of the borough.

N. Y., New York—(Borough of Queens)—(Official)—Bids will be received by Maurice F. Connolly, Borough Pres., Borough Hall, Fifth St. and Jackson Ave., Long Island City, until 11a.m., Nov. 22, for improving a number of streets and avenues of the borough.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Nov. 23, for constructing cement sidewalks on Colfax Ave., east side, between Railroad Ave. and Egbert St., fourth ward; Central Ave., east side, between Frastina Pl. and railroad track, third ward, and Van Name Ave. between Richmond Terrace and railroad track, third ward.

N. J., Haddonfield—Board of Commissioners contemplates paving Hawthorne and Berdwood Ave.

N. J., Newark—Bids will be received by Board of Freeholders until 3:30 p.m., Nov. 22, for improving South Orange Ave. from 20th St. to South Orange Village line.

Penn., Pittsburgh—(Official)—Bids will be received by Hyatt M. Cribbs, County Controller, until 10 a.m., Dec. 1, for improving Cliff Mines and Beaver Grade Connecting Rd., Section No. 1.

Md., Baltimore—Bids will be received until Nov. 23 by O. E. Weller, Chn. of Maryland State Rds. Comn., 601 Garrett Bldg., for seven miles of macadam paving on Annapolis Blvd. between Severn River and College Creek bridges.

Md., Cumberland—Georges St. from Baltimore to Dilly St. will be paved with wood blocks.

W. Va., Martinsburg—Bids will be received by E. D. Bromley, Street Comrs., until Nov. 30, for improving Spring St.

W. Va., Princeton—Bids will be received until Dec. 6 by G. H. Hill, Ch. Engr. of Rd. Constr., for 6½ miles of waterbound macadam road in Mercer County.

W. Va., Welch—Election will be held Dec. 18 in McDowell County, Sandy River District, to vote on $293,000 bonds for road construction.

N. C., Gastonia—Citizens voted $150,000 bonds. Part of proceeds will be used for new roads and part for improving old ones. Noted Aug. 19 and Sept. 2.

S. C., Summerville—City plans to hold election to vote on $20,000 bonds for street improvements.

Fla., Auburndale—Bonds for $30,000 voted for roads to connect with county hard roads which will be constructed if $1,000,000 Polk County bond issue is authorized.

Fla., New Augustine—Plans being prepared by J. B. McCrary Co., Engr., Atlanta, Ga., for paving King St. Estimated cost, $10,000.

Fla., Sebring—Election will be held Dec. 14 to vote on $50,000 bonds for street improvements.

Fla., West Palm Beach—Bids will be received by F. E. Encell, Chn., Comrs. of Palm Beach County, until Nov. 23, for hard surfacing Military Trail from Okeechobee Rd. west of Palm Beach to Palm Beach Canal.

Ala., Bay Minette—Election will be held Jan. 18 in Baldwin County to vote on $200,000 bonds for improving a number of roads and $55,000 bonds for its portion of highway between Mobile and Baldwin Counties. Noted under Mobile Nov. 4.

Miss., Edwards—Bids will be received by Highway Commission until Dec. 6 for 6½ miles of gravel road. Noted Aug. 19.

La., Mansfield—Election to vote on $280,000 bonds for roads contemplated by De Soto Parish, Wards 2, 4, 5, 6 and 7.

Ky., Bellevue—(Newport post office)—Citizens voted $23,000 bonds for improvement of Taylor Ave. Noted Oct. 21 and 28.

Tenn., Jonesboro—Election will be held Dec. 18 in Washington County to vote on $425,000 bonds for road construction.

Ohio, Cleveland—Citizens defeated $300,000 bonds for improving Carnegie Ave. from East 89th St. to Blvd. Noted Oct. 28.

Ohio, Linden Heights—Bonds for $10,000 voted by citizens for street improvements.

Ohio, Toledo—Bids will be received by County Commissioners until Nov. 30 for grading, draining and macadamizing with water bound macadam Otter Creek Rd., Oregon Township.

Ind., Columbia City—No bids were received Nov. 5 for road on Whitley-Noble county line. Noted Sept. 30.

Ind., Muncie—Bids will be received by F. M. Williams, Audr., Comrs. of Delaware County, until 10 a.m., Dec. 8, for gravel roads in Perry and Mt. Pleasant Townships.

Mich., Jackson—Supervisors of Hinds County plan $50,000 bond issue for improving roads in western part of county.

Mich., Saginaw—Construction of trunk line road between Saginaw and Owosso authorized by Board of Supervisors. Estimated cost, $40,000.

Ill., Peoria—Chamber of Commerce, Peoria, and citizens of Averyville contemplate paving "The Narrows," Galena Rd. Estimated cost, $22,000.

Ill., Streator—Ordinance passed authorizing paving of Bridge and Penn St. Estimated cost, $14,140.

Wis., Green Bay—Bids will be received until 10 a.m., Nov. 23, by F. Biemert, Chn., Com. on Streets, for crushed stone on West Mason St.

Wis., Kenosha—Commissioners of Kenosha County plan an expenditure of $66,405 for permanent highway in 1916. R. H. Jones, County Clk.

Iowa, Ida Grove—Bids will be received until Nov. 30 for paving a number of streets. K. C. Gaynor, Sioux City, Engr. Noted Aug. 15 and Sept. 2.

Minn., Excelsior—Bids will be received by F. S. Skemp, Village Clk., until 7:30 p.m., Dec. 7, for paving a number of streets with concrete, vitrified brick or creosoted blocks.

Kan., Pittsburg—(Official)—Bids will be received by L. Boyd, City Clk., until 8 p.m., Nov. 24, for recurbing and repaving Broadway from Second to Quincy Ave. and curbing and paving Elm St. from 12th to 20th St. and Lindburg Ave. from Broadway to Pine St. Noted Oct. 14.

Neb., Omaha—Bids will be received by T. J. O'Connor, City Clk., until 10 a.m., Nov. 23, for paving 41st, 35th, Cumming St. and various other streets.

Mo., Hillsboro—Bonds for $500,000 for roads and bridges defeated. Noted Oct. 7 and 21.

Mo., Jefferson City—Citizens defeated $100,000 bonds for roads. Noted Oct. 28.

Mo., Liberty—Election will be held Nov. 19 in Clay County, Excelsior Springs Special Road District, to vote on $100,000 bonds for roads. Noted Sept. 16.

Ark., De Witt—Surveys made for macadam road from De Witt to Reydell. Estimated cost, $120,000. L. S. Haller, County Judge.

Ark., Fayetteville—Surveys made for macadam road across Washington County, north and south, via Fayetteville, about 40 miles. Estimated cost, $200,000.

Ark., Fulton—Commissioners of Miller County Highway and Bridge District, Texarkana, will build 16 miles of road and bridge across Red River between Fulton and Index. About $60,000 available for this purpose.

Ark., Harrison—Surveys made for macadam road south to Newton County line to connect with proposed road north from Jasper in Newton County, about nine miles. Estimated cost, $38,000.

Ark., Little Rock—Commissioners of Pulaski County contemplate 22 miles of macadamized and graveled highways.

Ark., Osceola—Mississippi County has completed formation of three separate road districts and fourth is under consideration. New districts plan to build about 200 miles of improved highways.

Ark., Pine Bluff—Jefferson County has formed Road Improvement District No. 12 and will build about 22 miles of hard road in northern part of county. C. M. Philpot, County Judge.

Ark., Pine Bluff—Bonds for $13,000 sold for road from Pine Bluff to Free Bridge.

Ark., Winslow—Plans prepared for macadam road from Winslow to Ft. Smith.

Tex., Crockett—Election will soon be held to vote on $50,000 bonds for improving roads in Houston County.

Tex., Denison—No bids were received Oct. 19 for approximately 13,000 sq.yd. of paving. Noted Oct. 14.

Tex., Eastland—See item under "Bridges."

Tex., Sulphur Springs—Commissioners of Hopkins County plan to hold election to vote on $400,000 bonds for macadam roads.

Tex., Waco—Commissioners of McLennan County, Precinct No. 6, plan to hold election to vote on $200,000 bonds for road construction.

Okla., Poteau—See item under "Bridges."

Colo., Denver—Surveys completed for proposed road from Colfax Highway near rifle range to summit of Green Mountain, about five miles.

Wash., Walla Walla—Bids will be received by County Commissioners until Nov. 27 for two miles of highway near Whitman's Station.

Ore., Pendleton—(Official)—Bids will be received by City Recorder until 5 p.m., Nov. 24, for improvement of Riverside Drive from Main to Railey St. Noted Nov. 4.

Calif., Oakdale—Plans being prepared for paving F St. Estimated cost, $50,000.

Alta., Beverly—(Official)—Citizens voted $10,000 bonds for clearing and grading streets. Noted Oct. 28.

Bids In and Contracts Awarded

Mass., Boston—(Cheshire)—Bids were received Nov. 9 for 1,750 lin.ft. of road in Cheshire as follows: Middlesex Construction Co., Boston. $4,065; Roberts Construction Co., Pittsfield, $4,113; C. B. Lindholm, Pittsfield, $4,542.

Mass., Boston—(Sheffield and Great Barrington)—Bids were received Nov. 9 for section of state highway in Sheffield and Great Barrington from: J. D. Michael & Bros., Torrington, Conn., at $28,382, and Powers Bros., Brockton, at $33,615. Noted Nov. 4.

Mass., Woburn—(Official)—Contract for 5,200 lin.ft. of road awarded to DAVIS & PALLATTO, Lowell, at $11,968. Noted Oct. 21.

N. Y., Albany—(Official)—Bids were received Nov. 11 by State Highway Commission, 55 Lancaster St., for constructing highways by State-Aid as follows:

Road No. 1317, Auburn-Weedsport, Cayuga County, 8.00 miles—Brayer Bros., Auburn, $123,708; Sullivan Construction Co., Syracuse, $123,808; John Young, Syracuse, $124,724.

Road No. 5596—Mayville Village-Erie St., Chautauqua County, 0.79 mile—Edward T. Beck & Co., Warren, Penn., $25,800; Elmer F. Love & Son, Corry, Penn., $26,529; Ontario Roads Co., Inc., Manchester, $26,922.

Road No. 1339, Leroy-Brockport, Part II, Genesee County, 0.40 miles—Atlanta Construction Co., Atlanta, $13,010; Rhodey & Clawson, Albion, $14,119; Parker & Carney, Batavia, $14,631.

Road No. 1253, Chaumont-Depauville, Jefferson County, 6.05 miles—Henry P. Burgard, Buffalo, $45,249; Richard Hopkins, Troy, $47,453; Gruner & Hollenbeck, Harriman, $48,247.

Road No. 512, Akin-Johnstown, Part I, Montgomery County, 4.59 miles—Routley & Summers, Huntingdon, Quebec, $29,528; S. B. Van Wagenen, Inc., Rondout, $31,010; John Arborio, New Haven, Conn., $31,715.

Road No. 5558, Oneida-Verona, Oneida County, 4.69 miles—J. G. Hayes Co., Inc., Rome, $36,624; James Rossney, Buffalo, $38,134; Charles O. McComb, Syracuse, $38,322.

Road No. 5597, Utica-Poland, Part III, Oneida County, 5.34 miles—Routley & Summers, Huntingdon, Que., $51,591; Hovey E. Benedict, Williamsport, Penn., $51,706; James Rossney, Buffalo, $54,129.

Road No. 1338, Scotia-Saratoga County Line, Part I, Schnectady County, 4.22 miles—DeGraff & Hogeboom, Kingston, $33,775; S. B. Van Wagenen, Inc., Rondout, $35,081; John Arborio, New Haven, Conn., $36,207. Noted Oct. 28.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract for regulating, curbing, and laying sidewalks on Bay 34th St. awarded to B. TURECAMO CONTRACTING CO., INC., at $12,717, regulating, curbing and laying sidewalks on 23rd Ave. to J. J. GUINAN CONTRACTING CO., 2314 Gravesend Ave., New York, at $8,975. Noted Sept. 30 and Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for regulating and repaving various streets awarded as follows: West side of Broadway from curb to rail from north side of 108th St. to north side of 110th St. to ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., New York, at $5,189; 25th St. from Sixth to Seventh Ave. to SICILIAN ASPHALT PAVING CO., 41 Park Row, New York, at $5,277; 72d St. from Central Park West to Columbus Ave. to AZTEC ASPHALT CO., 90 West St., New York, at $10,655; 78th St. from First to Third Ave., 95th and 96th St. from Broadway to Amsterdam Ave. to SICILIAN ASPHALT PAVING CO., 41 Park Row, New York, at $11,060; Sixth Ave. from Eighth to 10th St., Greenwich Ave. from Sixth Ave. to north of Perry St., West 10th St. from Greenwich to Sixth Ave. to AZTEC ASPHALT CO., 90 West St., New York, at $52,151. Noted Oct. 28 and Nov. 11.

N. Y., Rensselær—JAMES J. RIDNEY, Rensselær, at $48,000 awarded contract for paving Riverside Ave.

N. Y., Schenectady—Contract for paving various streets awarded to UNION PAVING CO., at $23,687, and SCHENECTADY PAVING CO., at $2,427.

N. J., Hackensack—E. C. HUMPHREY, 173 Main St., Hackensack, at $24,226, awarded contract for improving Essex and Passaic St. Noted Oct. 28.

N. J., Newton—Contract for improving Newton-Sparta Rd. awarded to RICHARDSON & GASTON, INC., 143 Liberty St., New York, N. Y., at $57,163. Noted Oct. 21 and 28.

N. J., Redbank—Contract for concrete roadway at Throckmortons Fill awarded to WILLIAM A. COVENTRY, Ocean Grove. Noted Oct. 21.

N. J., Trenton—Contract for road from Hightstown to Princeton Junction awarded to MAINWARING & CUMMINGS, Philadelphia, Penn. Estimated cost, $55,000. Noted Oct. 14.

N. J., Trenton—Contract for Section No. 1 of River Rd. from Washington Crossing to Hunterdon County line awarded to UTILITY CONSTRUCTION CO., New Brunswick, at $38,264, for concrete; Section No. 2 to NEWTON PAVING CO., Trenton, at $73,245, for bituminous concrete.

Penn., Harrisburg—M. BENNETT & SONS, Indiana, at $16,640, awarded contract for brick block pavement in Marion Center Borough, Indiana County, and at $14,916, for water bound macadam road in Hickory Township, Lawrence County. Noted Oct. 14.

Penn., Philadelphia—Contract for improving Independence Sq. awarded to F. S. MARKLAND, 1500 Sansom St., Philadelphia, at $10,970.

Penn., Philadelphia—(Official)—Contract for surfacing with bituminous on 5-in. concrete base awarded to UNION PAVING CO., 30th and Locust St., Philadelphia, at $17,162. Noted Nov. 4.

Penn., Pittsburgh—(Official)—Contract for improving Glenn Ave., awarded to GORDON CONTRACTING CO., Pittsburgh, at $8,335; Wible Run Extension Rd. to JOHN FOLEY, Columbus, Ohio, at $35,398. Noted Nov. 4.

Penn., Pittsburgh—(Official)—All bids received Sept. 9 for improving Painters Run Rd. rejected. Noted Sept. 9.

Penn., Pittsburgh—(Official)—Contract for repaving Webster Ave. awarded to BOOTH M. FLINN, LTD., at $11,000.

Va., Norfolk—Contract for paving work on Granby St. awarded to LOUIS LAWSON, Norfolk. Estimated cost, $75,000. Noted Oct. 28.

W. Va., Huntington—(Official)—Contract for paving sections of Sixth, 11th and 13th Ave. awarded to J. ULLOM, Huntington, at $20,052. Noted Oct. 4.

La., Amite—Contract for 52,000 sq.yd. of paving awarded to WORMACK & KENT, Kentwood, at $9,620.

La., Monroe—(Official)—Contract for improving various streets of the city awarded to MERRILL ROAD IMPROVEMENT CO., Chattanooga, Tenn., at $40,000. Noted Oct. 21.

Tenn., Elizabethton—Contract for 70 miles of graded roads and repairing and completing roads already graded awarded to OLIVER HILL CONSTRUCTION CO., at $180,000. Noted Oct. 21.

Tenn., Kingston—Contract for two miles of Harriman and Oliver Springs pike awarded to HARRIMAN CEMENT AND STONE CO., Harriman.

Tenn., Kingston—Contract for pike from Harriman to Rockwood awarded to FRANK GAMBILL CO. Noted Oct. 28.

Tenn., Park City—(Knoxville post office)—Contract for paving Magnolia Ave. awarded to MURRAY CONSTRUCTION CO. Estimated cost, $105,000. Noted Oct. 7.

Ohio, Cheviot—(Cincinnati post office)—Contract for paving with brick on Olivette Ave. and sewer in North Bend Rd. awarded to KIRCHNER CONSTRUCTION CO., Cincinnati.

Ohio, Elyria—Contract for slag water-bound macadam road awarded to PUBLIC CONTRACTING CO., Masonic Temple, Elyria, at $8,419.

Ohio, Granville—(Official)—Contract for draining, curbing and paving Broadway St. from east to west corporation line awarded to OHIO ENGINEERING CO., Lorain, at $50,580. Noted Oct. 28.

Ind., Bloomington—Contract for paving East Sixth St. awarded to UNION ASPHALT CO., Indianapolis, at $16,326. Noted Oct. 14.

Ind., La Fayette—Contract for gravel road in Wayne Township, Tippecanoe County, awarded to S. S. PALMA, La Fayette, at $8,190.

Ind., Muncie—Contract for two roads in Liberty Township awarded to SNYDER & BARNETT, Frankfort. Noted Oct. 28.

Ind., Newport—Contract for gravel roads in Helt and Clinton Townships awarded to JAMES HEBER, Hillsdale, at $4,100, and CLAUDE INGRAM, Hillsdale, at $2,940. Noted Oct. 14.

Ind., Portland—Contract for brick pavement on macadam base in street from Ship St. across river bridge to Lake Erie Railroad awarded to FITZMAURICE & BEARD, at $1.42 per sq.yd.

Ind., South Bend—Contract for three gravel roads awarded to H. W. REED & SONS, Mishawaka, at $51,350. Noted Oct. 14.

Ind., Williamsport—Contract for gravel roads in Jordan and Pike Township awarded to CHARLES L. IRVIN, Attica, at $4,550. Noted Oct. 14.

Mich., Detroit—Contract for paving Sheridan Ave. from Gratiot to Frederick St. and Wabash Ave. from McGraw to West Grand Blvd. awarded to DETROIT ASPHALT PAVING CO., Detroit, at $4,424 and $13,068 respectively; Lynn St. from Oakland to Cameron Ave., to CLEVELAND TRINIDAD PAVING CO., at $4,140.

Mich., Sault Ste. Marie—Contract for 7½ miles of gravel roads awarded to A. T. BOUND, Brimley, at $47,000. Noted Oct. 14.

Ill., Springfield—Contract for extending Peoria hard road from Springfield awarded to CAMERON JOYCE, Keokuk, Iowa, at $13,673, by State Highway Commission, Springfield.

Minn., Park Rapids—(Official)—C. T. Glasser, Minneapolis, at $7,352, submitted lowest bid for job No. 2, State Highway No. 1, between Akely and east county line.

Minn., Wayzata—Lowest bid received for grading main road through Wayzata submitted by McCullough & Cheney at $10,756.

Kan., Bonner Springs—Contract for paving, grading and curbing awarded to A. JAICKS CO., American Bank Bldg., at $6,312.

Mont., Livingston—Contract for paving Park St. awarded to WARREN CONSTRUCTION CO., at $8,000.

Tex., El Paso—Contract for paving San José St. and Portland Ave., Manhattan Heights, awarded to SOUTHWESTERN PAVING CO. Estimated cost, $10,000.

Tex., Terrell—Contract for 55 miles of gravel and macadam highway awarded to J. S. TOBY & CO., Ft. Worth, at $114,000. Noted Oct. 7.

Wash., Dayton—Contract for two miles of highway on Highway No. 1 awarded to TRIBOU & BLACKMAN, Walla Walla, at $4,250.

Calif., Arcadia—(Official)—Contract for about 16 miles of piled macadam roadway and 10,000 lin. ft. of concrete curb and gutter awarded to ROGERS BROS. CO., Los Angeles. Estimated cost, $118,000. Noted Oct. 28.

Calif., Hillsborough—Contract for improving a number of streets awarded to RAISCH IMPROVEMENT CO., San Francisco, at $10,000. Noted Aug. 14.

Calif., Los Angeles—(Official)—Contract for paving Western Ave. from Temple St. to Fountain Ave. awarded to GEORGE R. CURTIS, at $49,266. Noted Sept. 30.

Calif., Morgan Hill—Contract for improving Monterey Rd. awarded to CASLEY & HAMILTON, San Jose, at $6,249.

Calif., San José—Contract for paving a new street between Rucker and Leavesly awarded to JOHN BOYLE, at $4,287.

Calif., Santa Cruz—Contract for paving a number of streets awarded to HOWARD CONSTRUCTION CO., Oakland, at $10,994. Noted Sept. 16.

INDUSTRIAL WORKS

Proposed Work

Mass., Ware—Otis Co. contemplates building three-story building to replace Mill No. 2.

Mass., Worcester—Worcester Woolen Co. will build four-story, 63x106-ft. concrete mill.

R. I., Woonsocket—Joseph G. Ray, Franklin, Mass., will build three-story, 80x380-ft. brick mill on Pont St.

Conn., Hartford—Bids will soon be received for three-story addition to refrigerating plant of Swift & Co. Estimated cost, $100,000. Noted Nov. 11.

N. Y., Buffalo—Buffalo Distilled Water Ice. Co. will build warehouse at 2 Central Ave. Estimated cost, $10,000.

N. Y., Elmira—Plans being prepared for plant for Morrow Manufacturing Co. Estimated cost, $100,000.

N. Y., Ft. Plain—Plans being prepared for two-story, 50x185-ft. plant for A. A. Warath & Son.

N. Y., New York—(Borough of Brooklyn)—(Official)—Plans prepared by Francisco & Jacobus, Arch., 200 Fifth Ave., for four-story, 80x100-ft. brick and steel sales and service station at Bedford Ave. and Sterling Pl., for Ford Motor Co., Detroit, Mich. Estimated cost, $100,000.

N. Y., Poughkeepsie—Plans prepared by J. J. Petit, Arch., 103 Park Ave., N. Y., for four-story, 75x350-ft. factory for Victor Typewriter Co. Estimated cost, $250,000. Noted Nov. 11.

N. J., Elizabeth—Plans prepared for one-story, 40x236-ft. factory for Metal Plating Co., 200 Fifth Ave., New York, N. Y. Noted Sept. 23.

N. J., Gibbstown—Du Pont Powder Co. contemplates building plant No. 2.

N. J., Irvington—Lionel Manufacturing Co., 365 Ogden St., Newark, contemplates building two-story, 228x235-ft. plant on South 21st St. Estimated cost, $60,000.

N. J., Newark—W. S. Rockwell Co. will build two-story factory on Balls Lane. Estimated cost, $20,000.

Penn., Cedar Hollow—Plans being prepared by Day & Zimmerman, Engr., 611 Chestnut St., Philadelphia, for lime kiln for Charles Warner Co., Wilmington, Del. Estimated cost, $80,000.

Penn., Philadelphia—Revised plans prepared by Charles E. Oelschlager, Arch., for three-story, 98x135-ft. warehouse for James Gallagher, Inc.

Penn., Phillipsburg—Mercantile Realty Co. will build window glass factory. Estimated cost, $10,000.

Penn., West End—A. B. Davidson, West Seventh Ave., contemplates building two-story grain elevator and warehouse at East St. and West Sixth St.

D. C., Washington—Plans being prepared for four-story bakery for Holmes & Son. C. D. Cooley & Co., Century Bldg., Pittsburgh, Penn., Arch. Estimated cost, $50,000.

D. C., Washington—Plans being prepared by George T. Santmyer, 917 New York Ave., for two-story, reinforced-concrete warehouse at 12th and C St. for W. R. Nash. Estimated cost, $10,000.

Va., Danville—Riverside and Dam River Cotton Mills will build two-story, 115x170-ft. building. Estimated cost, $40,000. Shattuck & Hussy, 19 South La Salle St., Chicago., Ill., Arch.

Va., Lamberts Point—(Norfolk post office)—Bids will soon be received by Norfolk & Western Ry. Co. for two-story warehouses. Estimated cost, $1,800,000. L. E. Johnson, Roanoke, Ch. Engr. Noted Oct. 7.

W. Va., Charleston—Biago Fruit and Produce Co. having plans prepared for cold storage, ice plant and office building. Estimated cost, $48,000. Paul M. Egan, 814 Quarrier St., Arch.

W. Va., Huntington—Stroehamnns Vienna Bakery has plans for one and two-story, 90x100-ft. bakery and office building. Estimated cost, $40,000. C. D. Cooley Co., Arch., Century Bldg., Pittsburgh, Penn. Noted Oct. 7.

W. Va., Wheeling—Plans being prepared by Charles W. Bates, Arch., 702 National Bank of West Virginia Bldg., for two-story, 175x200-ft. packing plant for Kalbitzer Packing Co.

N. C., Durham—Durham Steel Products Co., recently organized, will build a large plant for the manufacture of war munitions.

N. C., Durham—Imperial Tobacco Co. plans to build plant. Estimated cost, $500,000.

N. C., Greensboro—C. W. Edwards will build one-story, 67x200-ft. garage to be occupied by Gate City Motor Co. Estimated cost, $1,000.

N. C., Hendersonville—J. E. Sirrine, Greenville, S. C., preparing plans for 50x80-ft. mill and 22x76-ft. dyehouse for Hendersonville Hosiery Knitting Mill.

N. C., Raleigh—News and Observer Publishing Co. will rebuild plant destroyed by fire.

N. C., Statesville—Statesville Cotton Mill plans to build addition and install new machinery. Estimated cost, $70,000.

S. C., Columbia—Du Pre Motor Co. will build one-story, 47x100-ft. garage. Estimated cost, $10,000.

Ga., Athens—Georgia R.R. will build warehouse to be occupied by Callaway Grocery Co. Estimated cost, $35,000.

Ga., Augusta—Riverside Compress Co. will rebuild compress which was recently destroyed by fire.

Ga., Columbus—Plans prepared for addition to plant of Bibb Manufacturing Co., 23rd and River St. Estimated cost, $200,000.

Ga., Moultrie—T. H. Rothe and James B. Carlton will build a commercial hog cholera serum plant. Estimated cost, between $15,000 and $25,000.

Fla., Miami—Pin-Ap-Ola Co., 801 Longacre Bldg., New York, N. Y., will built a plant. Estimated cost, $35,000.

Ala., Shreveport—Developers Oil and Refiners Co. will build oil refinery at Shreveport.

Ala., Sylacauga—Avondale Mills, Birmingham, will enlarge cotton mill at Sylacauga. Estimated cost, $100,000.

La., New Orleans—Mohawk Motor Co., Wilmington, Del., plans to build factory. J. Bart Davis, interested.

Tenn., Nashville—J. B. Palmer will build two-story, 50x175-ft. brick garage. Estimated cost, $12,000.

Ky., Louisville—Kentucky Distillery and Warehouse Co. will improve building and build warehouse at Hamilton and Gregory St. and build addition to building at Thorn and Hamilton St. Estimated cost, $22,500.

Ohio, Canal Dover—Immel Feed and Milling Co. will rebuild plant which was recently destroyed by fire. Estimated cost, $40,000.

Ohio, Lima—Crucible Steel Co. will build an addition to plant. Estimated cost, $30,000.

Ohio, Sebring—E. H. Sebring Pottery Co. plans to build one and two-story addition. Estimated cost, $10,000.

Ohio, Toledo—Scheiwe Storage Co. will build warehouse at 141 Woodruff Ave. Estimated cost, $65,000.

Ohio, Toronto—Wayne Pottery Co. acquired plant of American China Co. and will improve same. Estimated cost, $20,000.

Ind., East Chicago—American Steel Foundries contemplates building 200x330-ft. addition to plant.

Ind., Indianapolis—J. B. Howard will build garage at Meridian and Tenth Ave. Estimated cost, $13,000.

Ind., Muncie—Gill Clay Pot Co. will rebuild plant which was recently destroyed by fire with loss of $100,000.

Mich., Fenton—Aetna Portland Cement Co., 412 Union Trust Bldg., Detroit, will enlarge plant. R. E. Paine, 50 Church St., Boston, Mass. and others interested.

Mich., Flint—A. L. A. Tire Co. will build one and two-story, 100x275-ft. plant on East Kearsley St.

Mich., Flint—Buick Motor Car Co. will build two-story, 300x350-ft. foundry.

Mich., Muskegon—Plans being prepared for 100x380-ft. plant for American Enameled Magnet Wire Co.

Ill., Chicago—Armour & Co. will build two-story garage at 3041 Piting St. Estimated cost, $28,000.

Ill., Chicago—Merchants Wholesale Grocery Co. will build two-story warehouse. Estimated cost, $25,000. C. Thisslew, Arch.

Ill., Chicago (South Chicago)—Illinois Steel Co. will build duplexing plant. Estimated cost, $2,000,000.

Ill., Chicago—General Fire Extinguisher Co., 1511 West 38th St., will build addition to plant. Estimated cost, $30,000. S. S. Joy, 1118 West 35th St., Arch.

Ill., Galesburg—Coulter Disc Co. will build plant to replace one recently destroyed by fire with loss of $100,000.

Wis., Superior—Great Northern Railway will build grain elevators in spring. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Iowa, Keokuk—Keokuk Electric Metals Co. will build plant. Estimated cost, $100,000.

Minn., Brainerd—Plans prepared for 80x410-ft., reinforced-concrete paper and pulp mill for Northwestern Paper Co. Estimated cost, $300,000. T. T. Whittier, Ch. Engr.

Kan., Wichita—Standard Oil Co. approved plans for warehouse, wash house, boiler room, tank house, office building and garage. Estimated cost, $75,000. Noted Sept. 9.

Neb., Gering—Gering Sugar Co., auxiliary of Great Western Sugar Co., will build plant. Estimated cost, $125,000.

Mo., St. Louis—International Shoe Co. will build two-story, 110x110-ft. addition. Estimated cost, $35,000.

Mo., Springfield—Springfield Ice and Refrigerating Co. will build a warehouse. Estimated cost, $125,000. B. E. Meyer, is Mgr.

Tex., Galveston—J. J. Kane and associates plan to build plant for construction and repair of ships. Estimated cost, $1,000,000.

Tex., Garland—F. W. White, A. R. Davis and Z. S. Armstrong organized a company to build a grain elevator. Estimated cost, $15,000.

Tex., Gatesville—Gatesville Cotton Yard and Warehouse Co. will build warehouse. Estimated cost, $12,000. J. T. Post interested.

Tex., Houston—Plans being prepared by Finger & Bailey, Houston, for four-story, 130x140-ft. reinforced-concrete warehouse for Magnolia Paper Co.

Tex., Mexia—Mexia Glass Works will build four-story plant. Estimated cost, $75,000.

Okla., Tulsa—Contract will soon be awarded for two-story, 50x120-ft. warehouse for W. L. Britton. Estimated cost, $12,000.

Wash., Port Angeles—Standard Oil Co., Railway Ave. and Whatcom St., Seattle, will install three oil tanks, build office building and warehouse. Estimated cost, $75,000. John McLean, Mgr.

Wash., Seattle—U. K. Loose, Lowman Bldg., interested in construction of plate plant. Estimated cost, $2,000,000.

Que., Sherbrooke—Canadian Ingersoll Rand Co. will build machine shop. Estimated cost, $50,000.

Que., Valleyfield—Castings Co. will establish forge, foundry and shell factory. L. A. Boyer, Town Clk

Bids In and Contracts Awarded

Mass., Leominster—Contract awarded to WILEY & FOSS, Fitchburg, for two-story, 40x241-ft. addition to plant of Viscoloid Co.

Mass., Worcester—(Greeendale)—Norton Co. awarded contract to E. J. CROSS CO., 82 Foster St., for four-story, 40x56-ft. addition.

Conn., Torrington—Contract awarded to TORRINGTON BUILDING CO., 179 Water St., for one-story, 220x240-ft. plant for Coe Brass Branch of American Brass Co.

Conn., Waterbury—Contract for machine shop and office building for Waterbury Tool Co. awarded to TRACY BROS. CO., Waterbury. Estimated cost, $70,000. Noted Nov. 11.

N. Y., Buffalo—Contractors Plant Manufacturing Co. awarded general contract for one-story, 60x140-ft. addition to JOHN W. COWDER CO. Estimated cost, $15,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—Edison Electric Illuminating Co., 13 Willoughby St., awarded contract to J. C. LYONS SONS CO., 30 East 42d St., for two-story, 98x100-ft. brick shop and garage on Quincy St. Estimated cost, $40,000. Noted Oct. 21.

Penn., Harrisburg—Contract awarded to MASHEK ENGINEERING CO., 90 West St., New York, N. Y., for plant for Gamble Fuel Briquette Co., Harrisburg.

Penn., Norristown—Adam Scheidt Brewing Co. awarded contract to PHILIP HAIBACH CONSTRUCTION CO., Philadelphia, for three-story, reinforced-concrete bottling plant. Estimated cost, $70,000. Noted Nov. 4.

Penn., Philadelphia—Girard Point Storage Co. awarded contract for 100x200-ft. addition to grain elevator to JAMES STEWART & CO. Estimated cost, $200,000.

Penn., Sharon—Contract for grain elevator for J. B. Roux awarded to FARRELL BUILDING CO. Estimated cost, $25,-000.

Penn., Yardley—Klauder Weldon Dyeing Machine Co. awarded contract to CHARLES T. EASTBURN, Yardley, for stone and steel foundry.

Md., Baltimore—Curtis Bay Distilling Co. awarded contract to CHICAGO BRIDGE AND IRON CO., 1300 West 105th St., Chicago, Ill., for 67 steel tanks. Estimated cost, $250,000.

Md., Baltimore—City Baking Co. awarded contract to CHARLES L. STOCKHAUSEN, 1 National Marine Bank Bldg., Baltimore, for three-story, 74x100-ft. bakery and garage. Estimated cost, $20,000. Noted Oct. 21.

Md., Baltimore—International Motor Co. awarded contract to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., for one-story, 60x150-ft. garage.

N. C., Charlotte—Buckeye Cotton Oil Co. awarded contract to BLYTHE & ISENHOUR, Charlotte, for two additional buildings. Estimated cost, $20,000.

Go., Columbus—Chero-Cola Bottling Co. awarded contract to L. E. WOOTEN, Columbus, for two-story plant. Estimated cost, $150,000.

Fla., Tampa—Consumers Ice and Cold Storage Co. awarded contract to McGUKEN & HEYER, Tampa, for five-story, 30x90-ft. packing plant. Estimated cost, $250,000.

Ala., Selma—Contract for additions to plant of Buckeye Cotton Oil Co. awarded to THOMAS PURVIS, Selma. Estimated cost, $40,000.

Ohio, Cincinnati—City Ice Delivery Co. awarded contract to REAUGH CONSTRUCTION CO., 2835 East 51st St., Cleveland, for ice plant at Price and Elberon Ave. Estimated cost, $17,000. Noted Oct. 28.

Ohio, Cleveland—Davis Laundry Co. awarded contract to PAUL BROS. CONSTRUCTION CO., 615 Citizens Bldg., Cleveland, for two-story, 50x100-ft. addition. Estimated cost, $10,000.

Ohio, Xenia—Contract for elevator, warehouse and feed mill for C. O. Miller, of Trebiens, awarded to BURRELL ENGINEERING AND CONSTRUCTION CO., Chicago.

Mich., Detroit—Studebaker Automobile Corporation awarded contract for 50x350-ft. building adjacent to plant No. 3, at Brush and Piquette St., to WISCONSIN BRIDGE AND IRON CO., 505 Moffat Block. Estimated cost, $30,000. Noted Oct. 14.

Mich., Muskegon Heights—Campbell-Wyant and Cannon Co. awarded contract to INDIANA BRIDGE CO. for two-story foundry. Estimated cost, $100,000. Noted Oct. 28.

Ill., Chicago—Martha Washington Candies Co. awarded contract to MUELLER CONSTRUCTION CO. for three-story factory. Estimated cost, $22,000.

Wis., Milwaukee—A. J. Lindermann-Hoverson Co., Midland and Cleveland Ave., awarded general contract to DANIEL B. DANIELSON, 874 Layton Blvd., for enameling shop. Estimated cost, $20,000.

Neb., Omaha—Contract for dye works at 24th and Erskine St. for Frank J. Carey, 24th and Lake St., awarded to JOHN BROS. CO., 3152 Chicago St., at $16,000.

Mo., St. Louis—(South St. Louis)—Monsanto Chemical Works awarded contract to GILSONITE CONSTRUCTION CO., Wainwright Bldg., St. Louis, for warehouse. Estimated cost, $70,000. Noted Nov. 4.

Mo., St. Louis—Terminal R.R. Association awarded contract to FRUIN-COLNON CONSTRUCTION CO., St. Louis, for two-story, 50x100-ft. service building at Compton and Scott St. Estimated cost, $15,000.

Wash., Seattle—All bids received Oct. 20 for four-story addition to warehouse on Whatcom Ave. for Port of Seattle Commission have been rejected. Noted Nov. 11.

Calif., Los Angeles—Murphy Oil Co. awarded contract to E. M. WHEATLAND, 108 North Greenleaf Ave., Whittier, Calif., at $56,434 for one-story packing plant.

N. B., St. John—Contract awarded to RHODES, CURRY CO. for 80x350-ft. warehouse, running parallel to No. 15.

Ont., Welland—Electric Steel and Metals Co., Welland, awarded contract to STANDARD STEEL CONSTRUCTION CO. for machine shop. Estimated cost, $20,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Attleboro—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 21, for United States post office at Attleboro.

N. Y., New York—Dredging—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 11, for dredging at Navy Yard, New York.

N. Y., New York—Dredging—Bids will be received at U. S. Engineer Office until noon, Dec. 14, for dredging Newark Bay and Passaic River, N. J. (See adv.)

N. Y., New York—(Borough of Manhattan)—Post Office—Plans being prepared by W. H. Volkening and J. Holler, Jr., Archs., 88 Wall St., for post office at Fourth Ave. and 13th St. for Estate of Charles A. Chesebrough to be leased by U. S. Government. Estimated cost, $50,000.

Wis., Antigo—Post Office—Bids will be received about Jan. 1 for U. S. post office at Antigo. Estimated cost, $70,000.

Wis., Beaver Dam—Post Office—Bids will be received about Jan. 1 for U. S. post office at Beaver Dam. Estimated cost, $75,000.

Neb., Aurora—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 22, for United States post office at Aurora.

Guam—Steel Towers—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Jan. 8, for two 400-ft. steel towers at radio station, Island of Guam.

Panama—Miscellaneous and Metal Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 1, for miscellaneous and metal supplies.

Panama—Miscellaneous Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 1, for miscellaneous supplies.

P. R., San Juan—Pipe Line—Bids will be received by Depot Quartermaster until 10 a.m., Dec. 1, for pipe line from Fort El Morro to points of distribution post of San Juan.

Bids In and Contracts Awarded

Mass., Boston—Building—Contract for U. S. appraisers' stores, Boston, awarded to P. J. CARLIN CONSTRUCTION CO., 1123 Broadway, New York, at $610,000. Noted Oct. 21 and Nov. 4.

Penn., East Pittsburg—Post Office—Bids were received Nov. 6 for U. S. post office at East Pittsburgh, (a) limestone, (b) sandstone, as follows: Torbett Construction Co., Hampton, Va., (a) $49,021, (b) $49,945; Fissell & Co., Marbridge Bldg., New York, N. Y., (a) $50,000, (b) $50,500; George Hogg Co., Pittsburgh, Penn., (a) $51,000, (b) $51,350. Noted Sept. 30.

Penn., Harrisburg—Post Office—Contract for U. S. post office at Harrisburg awarded to H. L. BROWN CO., Mt. Vernon, N. Y., at $113,405. Noted Aug. 26, Oct. 7 and Nov. 11.

Penn., Monongahela—Post Office—Contract for U. S. post office at Monongahela awarded to JAMES DEVAULT, Canton, Ohio, at $44,500. Noted Sept. 23 and Nov. 4.

Penn., Pittsburgh—(Official)—Bridge and Trestles—Bids were received Nov. 5 for service bridge and Poiree trestles at Dam No. 10, Ohio River, as follows: Independent Bridge Co., Pittsburgh, $8,732; Penn Bridge Co., Beaver Falls, $9,198; York Bridge and Construction Co., York, $10,013. Noted Oct. 14.

Md., Baltimore—Mechanical Equipment—Contract for mechanical equipment for U. S. immigration station awarded to W. G. CORNELL, Washington, D. C., at $82,759. Noted Aug. 12.

Va., Norfolk—Shell House—Baker & Brinkley, 220 Dixon Bldg., Norfolk, at $15,574, submitted lowest bid for shell house at Naval Magazine, Norfolk. Noted Oct. 14.

Va., Norfolk—Building—Contract for building at St. Helena Navy Yard awarded to R. R. RICHARDSON & CO., Norfolk, at $36,978. Noted Sept. 30 and Oct. 28.

Va., Norton—Post Office—Contract for U. S. post office at Norton awarded to WESTCHESTER ENGINEERING CO., White Plains, N. Y., at $56,897. Noted Sept. 16 and Oct. 28.

N. C., Wilkesboro—Post Office—Contract for United States post office at Wilkesboro awarded to RICHARDSON ENGINEERING & CONSTRUCTION CO., Bainbridge, Ga., at $52,600. Noted Sept. 16 and Oct. 21.

Fla., Pensacola—Hangars—Contract for three hangars at U. S. Navy Aeronautic Station, Pensacola, awarded to C. H. TURNER CO., Pensacola, at $37,842. Noted Sept. 30 and Oct. 21.

Ohio, Sidney—Post Office—Bids were received Nov. 8 for post office at Sidney, (a) limestone, (b) sandstone, as follows: Ohio Building and Construction Co., Cincinnati, (a) $50,800, (b) $51,650; E. T. Abbott Construction Co., St. James Bldg., New York, N. Y., (a) $51,900, (b) $53,250; James Devault, Canton, (a) $51,500, (b) $52,470. Noted Oct. 7.

Ohio, Van Wert—Post Office—Bids were received Nov. 10 for U. S. post office at Van Wert, (a) limestone, (b) sandstone, as follows: Original Cabinet Co., Evansville, Ill., (a) $56,429, (b) $56,769; Colonial Construction and Supply Co., Charlottesville, Va., (a) $56,333, (b) $56,973; C. W. Gindele Co., Chicago, Ill., (a) $56,000, (b) $56,250. Noted Oct. 7.

Ind., New Castle—Post Office—Contract for U. S. post office at New Castle awarded to J. S. ROGERS CO., Moorestown, N. J., at $52,999. Noted Sept. 23 and Nov. 4.

Ind., Seymour—Post Office—Contract for U. S. post office at Seymour awarded to CALLAHAN-MANDL CO., Chicago, Ill., at $47,700. Noted Sept. 23 and Nov. 4.

Wis., Merrill—Post Office—Contract for U. S. post office at Merrill awarded to JOHN LAURITZEN, Fergus Falls, Minn., at $53,900. Noted Sept. 30 and Nov. 11.

Wyo., Powell—Canal—Contracts for constructing first unit, Frannie Division, Shoshone Project, awarded as follows:

Schedules 1 and 3 to THREET BROS. & JOLLEY, Lowell, at $78,760; schedule 2 to R. M. LYNN, Lovell, at $27,076. Noted Sept. 23 and Oct. 28.

Mo., Kirksville—Post Office—Contract for extending and remodeling U. S. post office at Kirksville awarded to CHARLES WEITZ SONS, Des Moines, Iowa, at $25,213. Noted Sept. 23 and Nov. 4.

Tex., New Braunfels—Post Office—Bids were received Nov. 5 for U. S. post office at New Braunfels as follows: George W. Stiles Construction Co., Chicago, Ill., $41,750; Algernon Blair, Montgomery, Ala., $42,315; Weston & Kroeger, San Antonio, $40,949. Noted Sept. 30.

Okla., Ft. Sill—Heating Plants—Contract for steam heating plants at Ft. Sill awarded to F. B. HANNAN, Lawton, at $11,475. Noted Oct. 21.

Colo., Montrose—Canal Work—Contracts for about 11 miles of Ironstone Canal, Uncompahgre Valley Project, awarded as follows: Schedules 1 and 2 to MENDENHALL, BIRD & CO., Springfield, Utah, at $30,006; schedules 3, 4 and 5 to C. B. SHERWOOD, Rockford, Colo., at $16,681. Noted Sept. 30 and Nov. 4.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Mass., Boston—(Official)—Dredging—Bids will be received until Nov. 24 by Directors of Port of Boston, 40 Central St., for dredging and filling East Boston, about 1,500,000 cu.d. (See adv.)

R. I., Providence—Drainage—Frederick V. Waterman estimates cost of drainage swamp land adjacent to Broadway from Ten Mile River on north to Watchemoket Cove on south at $121,148.

Tenn., Lexington—Canal—Henderson County Commissioners will construct Cane Creek Drainage Canal from Lexington and Scotts Rd. to Beech River, 5½ miles. Estimated cost, $11,825.

Ind., Winamac—Ditch—Bids will be received until Nov. 20 by C. E. Paul, Constr. Com., for Lutcher Thompson Ditch, Marion Land Co. Ditch Nos. 2 and 4.

Wis., Grandview—Reclamation—Company being formed for drainage project to reclaim 20,000 acres of land. D. M. Macy, Washburn, interested.

Minn., Windom—Ditches—Bids will be received until 1:30 p.m., Nov. 19, by S. A. Brown, County Audr., for Judicial Ditch Nos. 20, 21 and 22. Estimated cost, $23,000, $15,500 and $6,900 respectively.

Kan., Junction City—Ditch—County Commissioners plan to construct two-mile ditch to drain land along Republican River between Junction City and Aliga.

Mo., Belleville—City Council and Civic Organizations Committee will organize drainage district to improve Richland Creek in Belleville.

Ark., Marion—Drainage—Willis E. Ayres, Memphis, Tenn., preparing plans for draining 20,000 acres for Drainage District No. 8.

Tex., Ennis—Drainage—Bids will be received about Dec. 15 by Ellis County Levee Improvement District No. 2 for reclaiming 12,000 acres on Trinity River. Estimated cost, $121,000. Noted Sept. 30.

Tex., Ft. Stockton—Irrigation—El Sinore Catile Co. plans to build four pumping plants and canal system in Pecos County to irrigate 6,000 acres of land.

Tex., Orange—Dredging—Bids will be received until Nov. 30 by E. U. Henry, City Engr., for dredging slip 3,000 ft. long.

Idaho, Boise—State Land Board approved plans of Thayer & Moore, Engr., Kansas City, Mo., to irrigate 30,000 acres in vicinity of Little River near Boise.

Idaho, Montour—Tunnel—Bids will be received until Nov. 29 by H. Taylor, Secy., Emmett Irrigation District, for concrete tunnel.

Wash., North Yakima—Irrigation—C. E. Udell, Secy. Com., plans to improve canal and irrigation system by installing ¾ mi. of flume, relocate and improve portions of canal. Estimated cost, $35,000. H. A. Marble, Engr.

Ore., Astoria—Dredging—A. Walsh, Engr. Port of Astoria, estimates cost of dredging channel in Skipnon River at $40,000 for 6-ft. channel and $60,000 for 15-ft. channel.

Calif., Doyle—Irrigation—Southern Leffen Irrigation District retained William L. Wales, Engr., Woodland, to prepare plans for irrigation district in Honey Lake Valley.

Calif., Los Angeles—Irrigation—Los Angeles County Water District No. 3 approved half of $2,606,000 bond issue for irrigation of 77,000 acres in San Fernando Valley recently annexed to Los Angeles. Noted Nov. 11.

Calif., San Joaquin—Reservoir—Bids will soon be received by Directors of South San Joaquin Irrigation District for purchase of $450,000 bonds for Woodward Reservoir.

Calif., Thermalito—Irrigation—Thermalito Irrigation District organized to irrigate 6,000 acres with water from West Branch of Feather River. F. A. Egan, R. S. Powers and Scott Lawton interested.

Bids In and Contracts Awarded

N. Y., Albany—(Official)—Barge Canal Terminal—Contract awarded to PATRICK W. MULDERRY, Albany, at $33,704, for barge-canal terminal, Contract No. 2-P. Noted Oct. 28 under Plattsburg, N. Y.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Bids were received by Department of Docks and Ferries for dredging in Borough of Manhattan under Contract No. 1482 as follows: Morris & Cummings Dredging Co., at $0.12½ per cu.yd.; Henry Du Bois Sons Co., at $0.1295 per cu.yd.; Coastwise Dredging Co., at $0.128 per cu.yd.

Fla., Tampa—Canal—Florida Beach Development Co. awarded contract to HILLSBOROUGH DREDGING CO., Tampa, for 2,300-ft. boat canal through Haven Beach property on Sand Key to extend from Government Channel in Boca Ceiga Bay.

La., Abbeville—Drainage—Youngs Coulee Drainage District of Vermilion Parish awarded contract to WARREN CONSTRUCTION CO., Lake Charles, for 250,000 cu.yd. drainage canal. Estimated cost, $25,000.

Minn., Blue Earth—Ditches—Contracts for ditches awarded as follows: Ditch No. 35, NELS STOUGARD & EDWARD NELSON, Wells, at $8,740; Ditch No. 36, ELMORE CEMENT AND TILE CO., Elmore, at $18,370; Ditch No. 38, ABSOLM GUDAH, Bricelyn, at $9,700.

Minn., Roseau—(Official)—Ditch—Contract awarded to E. G. BRANDENBURG CONSTRUCTION CO., Minneapolis, for excavating Judicial Ditch No. 62. Noted Oct. 7.

Ark., Marion—Drainage—Contract for Drainage District No. 6 awarded to CANAL CONSTRUCTION CO., Memphis, Tenn., at $130,000.

Tex., Edna—Drainage—All bids received Oct. 28 by A. E. Landin, Chn. Jackson County Drainage District No. 8 rejected as being too high. Noted Oct. 14.

Calif., Modesto—Canal Work—Bids were received for constructing concrete facing and curtain wall for Dam No. 1 as follows: Peart Bros., Oakland, $72,800; Contra Costa Construction Co., San Francisco, $75,000; Tibbitts-Pacific Co., San Francisco, $77,770. Noted Sept. 23.

Calif., Oakdale—Syphon—Board of Directors of Oakdale Irrigation District awarded contract to LARSEN BROS., Turlock, Calif., at $17,000, for concrete syphon under tracks of Santa Fé Ry.

MISCELLANEOUS

Proposed Work

Mass., Boston—Bulkhead—Bids will be received until Nov. 24 by Commissioners of the Port for bulkhead.

N. Y., Buffalo—(Official)—Hardware—Bids will be received by Col. Franklin W. Ward, Secy., State Bd. of Armory Comrs., Telephone Bldg., Albany, until 4 p.m., Nov. 24, for furnishing and finishing hardware for Armory and Stable for Troop I, First Cavalry, N. G. N. Y. (See adv.)

N. Y., New York—(Borough of Bronx)—Track Installation—Bids will be received until noon, Nov. 23, by Public Service Commission of First District, 154 Nassau St., for track installation on White Plains Rd. and extension of existing subway.

N. Y., New York—(Borough of Manhattan)—Subway—Bids will be received until Nov. 30 by Public Service Commission of First District, 154 Nassau St., for Section No. 2, Route Nos. 19 and 22.

N. Y., New York—(Borough of Manhattan)—Subway—Bids will be received until Dec. 7 for part of Eastern District Subway No. 3, Route No. 8 under East River from Manhattan at 14th St. to North Seventh St., Brooklyn.

N. Y., Olean—Flood Protection—Plans submitted to W. W. Wotherspoon, State Supt. of Pub. Wks., for deepening and straightening Olean Creek from junction with Alleghany River to point 2½ miles up stream and building dikes and retaining walls on bank of creek. Estimated cost, $150,000.

N. Y., Syracuse—Retaining Wall—Intercepting Sewer Board submitted report to Common Council estimating cost of building retaining wall along bank of creek in 14th Ward, at $75,000. Noted Oct. 14.

Penn., Philadelphia—(Official)—Elevated Railway Work—Bids will be received by A. M. Taylor, Dir., Dept. of City Transit, 754 Bourse Bldg., until noon, Dec. 7, for concrete column foundations and piers for about 4,000 lin.ft. of two-track elevated railway in Frankford Ave. from Unity to Dyre St. under Contract No. 502. (See adv.)

Penn., Philadelphia—(Official)—Elevated Railway Work—Bids will be received by A. M. Taylor, Dir., Dept. of City Transit, 754 Bourse Bldg., until noon, Dec. 14, for steel superstructure and appurtenant work for two-track elevated railway in Franford Ave. from Unity to Dyre St., under Contract No. 519. (See adv.)

Fla., Miami—Channel—Plans being prepared for ship channel. Estimated cost, $36,000.

La., Port Allen—Levee—Atchafalaya Basin Levee District will build Cocoa Levee, two section ½ mile apart.

Ky., Louisville—Park Improvements—Commissioners provided in budget $423,800 for additions and improvements to park system. Noted Nov. 11.

Ohio, Cincinnati—Elimination of Grade Crossing—Hamilton County Commissioners and Cincinnati, Hamilton & Dayton Railway contemplate eliminating grade crossing at Springfield Pike. Estimated cost, $70,000.

Ohio, Cincinnati—Park Improvements—Citizens voted $1,250,000 bonds for park and playground improvements. Noted Sept. 16.

Ohio, Cleveland—Comfort Stations—Citizens voted $100,000 bonds for comfort stations. Noted Sept. 30.

Ohio, Cleveland—Elimination of Grade Crossing—Citizens voted $1,600,000 bonds for elimination of grade crossings. Noted Oct. 7.

Ohio, Toledo—Park Improvements—Citizens voted $750,000 bonds for park and boulevard improvements.

Ohio, Wellsville—(Official)—Dikes—We have been advised that bonds for $50,000 for dikes were not voted at November election. The proposition will be taken up later. Noted Oct. 28 and Nov. 11.

Mich., Rock River—(Au Train post office)—Parks—Citizens voted $40,000 for parks.

Ill., West Chicago—Park Improvements—West Chicago Park Commissioners sold $1,000,000 bonds for park improvements.

Minn., Two Harbors—Ore Docks—Bids will soon be received for building concrete ore dock and remodeling Dock No. 6 for Duluth & Iron Range R.R. Co. Estimated cost, $1,635,000. Noted Oct. 21.

Mo., Kansas City—Improving Station Park—City Council will issue $100,000 bonds for improving station park.

Mo., Kansas City—Levee—City plans to build about six miles of levee from Grand Ave. to mouth of Blue River. Estimated cost, $1,500,000.

Ark., Arkansas City—Pipe Line—Company being organized to build oil pipe line from Arkansas City Oil and Gas fields to refinery. Estimated cost, $25,000.

Tex., Aransas Pass—Wharf—Fisheries Co. will build wharf at St. Josephs Island Plant.

Tex., Houston—Park Improvements—City sold $243,750 bonds for park improvements. Noted Oct. 21.

Tex., Orange—Dredging—Bids will be received until Nov. 30 by City Commissioners for dredging slips for wharfs and docks, 750,000 cu.yd. E. U. Henry, City Engr. Noted Nov. 11.

Tex., Port Arthur—Seawall—Revised plans being prepared by J. F. Coleman, Consult. Engr., New Orleans, for seawall. Noted Sept. 30.

Utah, Salt Lake City—Bath House—Citizens contemplate construction of bath house at Warm Springs. Estimated cost, $250,000. H. M. Wells, Comr.

Ariz., Tucson—Subway—Bids will be received until Nov. 27 by C. K. Clarke, City Mgr., for subway under railroad tracks at end of Congress St. Estimated cost, $70,000. L. R. Walker, Tucson, Designing Engr. Noted Oct. 14.

Ore., Portland—Automatic Sprinklers—Bids will be received until 4 p.m., Dec. 2, by R. H. Thomas, School Clk., for installing automatic sprinkler equipment in various schools.

Calif., Los Angeles—Subway—Pacific Electric Railway will rearrange tracks at Hill St. Station preliminary to building subway under Olive St., west of station, about six miles. Estimated cost rearranging tracks, $40,000, subway, $12,000,000.

Que., Montreal—Park Improvement—Council of Maisonneuve will advance Park Commission $25,000 for preliminary work in improving park.

MISCELLANEOUS

Bids In and Contracts Awarded

Mass., Boston—Tunnel—Bids were received Nov. 11 for section of tunnel under Dorchester Ave. from West Fourth St. to Old Colony Ave. from: T. A. Gillespie & Co., New York, N. Y., at $396,833, and Coleman Bros., Chelsea, at $382,364. Noted Sept. 30 and Oct. 28.

Mass., Winthrop—Seawall—All bids received Oct. 20 by Harbor and Land Commission for seawall rejected. Noted Oct. 28.

N. Y., New York—(Borough of Brooklyn)—Steel—New York Municipal Railway Corporation awarded contract for 60,000 tons structural steel for new lines and terminals and reconstructing existing lines and terminals to AMERICAN BRIDGE CO. Estimated cost, $2,274,700. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Park Improvement—Contract for improving Isham Park awarded to DELSON CONTRACTING CO., at $11,121. Noted Oct. 28.

N. Y., New York—(Borough of Queens)—(Official)—Tracks—Bids were received Nov. 12 for installation of tracks for a portion of Steinway Tunnel Rapid Transit Railroad as follows: Thomas Crimmins Contracting Co., $204,898; George F. Bennett, $206,001; Degnon Contracting Co., $233,619. Noted Nov. 4.

N. Y., New York—(Borough of Queens)—Elevated Railway—New York Municipal Railway Corporation awarded contract to CONNORS BROS. CO., INC., at $726,158 for Second Ave. Section of new elevated railroad including steel work between Walnut St. and Cliffside Ave. Noted Oct. 21.

N. Y., New York—(Borough of Queens)—Tracks—New York Municipal Railway Corporation awarded contract to CHARLES A. MYERS CONSTRUCTION CO., INC., at $17,123 for grading, removing and shifting tracks, laying new tracks for construction work and improving Freshpond Yards.

Miss., Pascagoula—Seawall—Jackson County Commissioners awarded contract to HANCOCK, HARBIN & HANCOCK, Mobile, Ala., for 5,000-ft. seawall.

La., Natchitoches—Dams—Natchitoches Parish Police Jury awarded contract to N. TANSEY, Shreveport, at $19,775 for two dams across Canal River.

Ohio, Cleveland—Subway—Cleveland, Akron and Canton Terminal R.R. awarded contract to FOUNDATION CO., Woolworth Bldg., New York, N. Y., at about $15,000,000 for subway, freight docks and terminal.

Ohio, Toledo—Steamer—Contract for 600-ft. steamer for Great Lakes Steamship Co. awarded to TOLEDO SHIPBUILDING CO., Toledo, at $450,000.

Ill., Benton—Levee—Contract awarded to J. W. CAMPBELL, Oaktown, Ind., at $0.60 per cu.yd., for levee repair along Ohio River in Gallatin County.

Ill., Cairo—(Official)—Levee Repairs—Contract for levee repairs in Cairo awarded to D. F. McCARTHY COAL CO., Cairo, at $23,209. Noted Nov. 4.

Minn., Duluth—Dock—M. A. Hanna Coal Co. awarded contract to BARNETT & RECORD CO.; Duluth, for dock. Estimated cost, $90,000.

Mo., New Madrid—Levee Work—Contract for levee work for St. John Levee and Drainage District of Missouri awarded to CHARLESTON CONSTRUCTION CO. Estimated cost, $50,000. Noted Oct. 28.

Ark., Texarkana—Levees—Contract for repairing breaks and cave-ins on levees around Red River awarded to E. P. CONSTANT, Alexandria, La., by Miller County Levee District No. 2 and Bowie County Levee and Drainage District No. 1. Estimated cost, $80,000.

Calif., Oakland—Filling—City Council awarded contract to CHARLES E. COTTON, Oakland, for filling in land east of Southern Pacific tracks in West Oakland, about 50,000 cu.yd. Estimated cost, $14,000.

B. C., Vancouver—Seawall—Contract for seawall which is part of Canadian Northern Railway Co. false creek terminal scheme awarded to A. G. GREELMAN & CO., Vancouver. Noted Sept. 16.

Porto Rico, San Juan—Bulkhead Shed—Contract for one-story steel frame bulkhead shed, 841-ft. long awarded to JESUS BENITEZ, San Juan, at $72,975. Noted Nov. 11.

BUILDINGS

Other items relative to Building Construction will be found under the following heads: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Proposed Work

Vt., Montpelier—Bids will be received about Nov. 25 by Desmore & Le Clear, Arch., 88 Broad St., Boston, Mass. for two-story, 90x150-ft. court house and library for state. Estimated cost, $125,000. Noted Oct. 14.

Mass., Adams—Bids will soon be received for Drury High School. Estimated cost, $190,000. E. C. and G. C. Gardner, 33 Lyman St., Springfield, Arch.

Mass., Boston—Plans being prepared by Samuel D. Kelley, 209 Washington St., for 11-story office building at Tremont St. and Court Sq. for Kimball Building Trust.

Mass., Boston—Plans being prepared by Silverman Engineering Co., 43 Tremont St., for theater, bowling alleys and garage for Myer Dana. Estimated cost, $400,000.

Mass., Boston—Preliminary plans being prepared by Philip S. Avery, Arch., 120 Tremont St., for three-story home for Union Rescue Mission.

Mass., Lowell—Plans being prepared for church for St. Louis Parish of West Centralville. Walter F. Fountaine, Woonsocket, R. I., Arch.

R. I., Barrington—Plans being prepared by Martin & Hall, Arch., Union Trust Bldg., Providence, for school.

R. I., Providence—Bids will be received until Nov. 22 by William C. Pelkey, Clk., for school building at Cole and Luzon Ave. Estimated cost, $150,000. Stone, Carpenter & Sheldon, 802 Industrial Trust Bldg., Arch. Noted Aug. 26.

R. I., Providence—Plans being prepared for grammer school for City of Providence. William R. Walker & Son, Providence, Arch.

N. Y., Binghamton—Board of Managers of Binghamton State Hospital will ask next legislature for appropriation of $200,000 for new buildings and improvements to present institution.

N. Y., Dunkirk—Supervisors of Chautauqua County will build new tuberculosis hospital. Estimated cost, $150,000.

N. Y., Dunkirk—Bids will soon be received for building for Salvation Army, 122 West 14th St., New York, N. Y. Estimated cost, $100,000.

N. Y., Medina—Plans being prepared by W. S. Brickell-Swain Co., Arch., 46 Chapin Bldg., Buffalo, N. Y., for high school for Board of Education. Estimated cost, $80,000.

N. Y., New York—(Borough of Bronx)—(Official)—Plans being prepared for alterations to public school at Lorillard Pl. and 189th St. Estimated cost, $140,000.

N. Y., New York—(Borough of Bronx)—(Official)—Plans being prepared by G. F. Pelham, Arch., 30 East 42d St., New York, for theater on Webster Ave. between 195th and 196th St. for Bedford Park Amusement Co. Estimated cost, $175,000.

N. Y., Rochester—Board of Education will build school at Post and Congress Ave.

N. J., Jersey City—Hudson County Hebrew Orphans' Home will build an orphanage. Estimated cost, $50,000.

N. J., Jersey City—City Commission will soon receive bids for addition to City Hospital. Estimated cost, $350,000. John T. Rowland, Jersey City, Arch.

N. J., Newark—Contract for completing 12-story hotel for Philip N. Jackson Estate awarded to GEORGE A. FULLER CO., 111 Broadway, New York, N. Y.

N. J., Summit—Common Council purchased site on Maple St. for high school building.

Penn., Easton—Preliminary plans being prepared by William M. Michler, Arch., Drake Bldg., for three-story hospital. Estimated cost, $125,000. Dr. Tonkin, Chn. Hospital Comn.

Penn., New Kensington—Plans prepared by Thomas Hannah, Arch., for church for Edgewood Presbyterian Congregation. Estimated cost, $80,000.

Penn., Williamsport—Plans being prepared by Mowbray & Uffinger, Arch., 56 Liberty St., New York, N. Y., for one-story bank building for West Branch National Bank. Estimated cost, $150,000.

Del., Farnhurst—Bids will soon be received by State of Delaware, Dover, for three-story addition to hospital at Farnhurst. Estimated cost, $60,000. L. W. Crawford, Odd Fellows Temple, Wilmington, Arch.

Del., Wilmington—Plans being prepared for 12-story addition to office building of Dupont Powder Co.

Md., Baltimore—Bids will be received about Dec. 1 by Highlandtown Branch of Y. W. C. A. for three-story building on Clinton St. near Eastern Ave. Estimated cost, $40,000.

Md., Baltimore—Revised plans being prepared by Joseph Evans Sperry, 409 Calvert Bldg., for six-story, 69x141-ft. Y. M. C. A. building at Park Ave. and Franklin St. Estimated cost, $200,000.

D. C., Washington—Bids will soon be received for preparatory school for Georgetown University. Estimated cost, $400,000. Marsh & Peter, 520 13th St. N. W., Arch. Noted Nov. 11.

D. C., Washington—Plans being prepared by A. M. Schneider, Arch., 1430 K St., N. W., for seven-story, 121x148-ft. hotel for Harry Wardman. Estimated cost, $500,000.

W. Va., Huntington—Pocahontas-Winifrede Coal Co., First National Bank Bldg., will build office building at 814 Sixth Ave. in spring.

W. Va., Wheeling—Board of Education of Richland District will hold election to vote on $85,000 bonds for central school in Center Warwood.

N. C., Durham—Plans being prepared by Milburn, Heister & Co., Union Savings Bank Bldg., Washington, D. C., for four-story, 70x150-ft. courthouse and jail for County Commissioners. Estimated cost, $250,000.

N. C., Durham—Election will be held Dec. 14 to vote on $75,000 bonds for two schools on Moorehead school site. George W. Watts, Chn. School Trustees. Noted Oct. 28.

Ga., Albany—Plans being prepared by A. Ten Eyck Brown, 607 Forsythe Bldg., for seven-story, 43x90-ft. bank and office building at Broad St. and Courthouse Ave. for First National Bank. Estimated cost, $100,000.

Ga., Atlanta—Fulton County Board of Education will build grade school on Peachtree Battle Ave. Virlyn B. Moore, Chn. of Com.

Ga., Lagrange—H. P. Park in charge of Park Hotel, contemplates organizing a company to build hotel and improve present Park Hotel. Estimated cost, $40,000.

Ga., Macon—Trustees of Masonic Home will enlarge building. Estimated cost, $40,000. W. L. Collier, Supt.

Fla., De Land—Volusia County Commissioners plan to build high school. Estimated cost, $40,000.

Fla., Live Oak—Bids will be received until Dec. 14 by Suwannee County Board of Education for school. Mark & Shaftall, 210 Clark Bldg., Jacksonville, Arch.

Fla., Miami—Plans being prepared by Frohlin & De Garmo, Arch., for eight-story, 40x100-ft. hotel for E. C. McAllister. Estimated cost, $300,000.

Fla., Okeechobee—Election will be held Dec. 1 by Special Tax District No. 6 to vote on $40,000 for school. W. L. Foote, Trustee. Noted Oct. 28.

Miss., Columbus—Election will soon be held to vote on $50,000 bonds for high school. Noted Nov. 4.

Miss., Meridian—Board of County Supervisors contemplate agricultural high school. Estimated cost, $100,000.

La., New Orleans—Knights of Maccabees plan to construct a building.

La., New Orleans—Bids will be received until Nov. 23 by Department of Public Finances for isolation hospital.

Tenn., Nashville—Ward Belmont College for Women will build new building.

Tenn., Nashville—Committee appointed by Governor to select site on which to build Tennessee Tuberculosis Hospital. About $100,000 available for this purpose.

Ky., Danville—Election will soon be held to vote on $50,000 bonds for purchase of ground and building of school.

Ky., Hopkinsville—Citizens voted $100,000 bonds for schools. Noted Oct. 21.

Ohio, Akron—Bids will soon be received by Henry Murphy, Arch., 523 Second National Bldg., St. Louis, Mo., for four-story 60x115-ft. club house. Estimated cost, $75,000.

Ohio, Akron—Plans prepared for seven-story, 70x70-ft. bank and office building for Peoples Saving and Trust Co. Fichter & Brooker, 527 Second National Bank Bldg., Arch. Estimated cost, $150,000.

Ohio, Athens—Bids will soon be received by Christian Church for one-story, 40x65-ft. church and Sunday school. Estimated cost, $60,000. E. E. Pruitt, Hartman Bldg., Columbus, Arch.

Ohio, Cincinnati—Plans being prepared by E. H. Dornette, Arch., Pickering Bldg., Cincinnati, for four-story, 35x80-ft. hospital for German Deaconess Hospital Association. Estimated cost, $40,000.

Ohio, Circleville—Plans being prepared by R. Z. Dawson, Arch., Columbus, for grade and high school building for Washington Township, Pickaway County.

Ohio, Cleveland—Citizens voted bonds for three-story union passenger station for New York Central and Pennsylvania R.R. Co. Graham, Burnham & Co., Chicago, Ill., Arch. Noted Oct. 14.

Ohio, Cleveland—Plans being prepared by W. H. Nicklos, Arch., 1900 Euclid Ave., Cleveland, for two-story addition to McGregor Memorial Home for Aged at Terrace and Lee Rd.

Ohio, Cleveland—Plans prepared by F. C. Warner, Arch., 767 Hippodrome Bldg., for six-story, 48x240-ft. hotel for Euclid 66th St. Co. Estimated cost, $200,000.

Ohio, Cleveland—Livingston Taylor will build four-story hotel on East 18th St. Estimated cost, $100,000.

Ohio, Cleveland—Cleveland Presbyterian Union contemplates building new churches. Estimated cost, $100,000.

Ohio, Cleveland—Western Reserve University plans to build gymnasium. Estimated cost, $150,000. C. W. Hopkinson, 900 Rose Bldg., Arch.

Ohio, Columbus—Plans being prepared recreation building for City of Columbus. Estimated cost, $40,000.

Ohio, Edgefield—Bids will be received until Dec. 3 by Board of Education for school building. Herman J. Wagner, 532 Renkert Bldg., Canton, Ohio, Arch.

Ohio, Galion—Plans being prepared by W. T. Mills Co., Arch., 49 North High St., Columbus, for one- and two-story church for First M. E. Church. Estimated cost, $60,000.

Ohio, Gallipolis—Plans being prepared for three-story, 68x80x40-ft. hospital by F. L. Packard, Arch., 1212 New Hayden Bldg., Columbus, for Charles E. Holzer.

Ohio, Lakewood—Plans being prepared for three-story high school for Board of Education. Charles W. Hopkinson, Arch., 900 Rose Bldg., Cleveland. Estimated cost, $200,000.

Ohio, Mansfield—Emergency Hospital Association will build hospital and nurses' home. Estimated cost, $80,000.

Ohio, Massillon—Plans being prepared for cottage for Massillon State Hospital. Estimated cost, $70,000.

Ohio, Portsmouth—Preliminary plans being prepared for the new Fourth St. Methodist Church. Estimated cost, $40,000. Louis Clauson, Member of Bldg. Com.

Ohio, Reading—Plans being prepared by Garber & Woodward, Arch., Union Central Bldg., Cincinnati, for new school. Estimated cost, $60,000.

Ohio, Toledo—Citizens voted $1,000,000 bonds for school improvements. Noted Oct. 28.

Ohio, Uhrichsville—W. H. Nicklas, Arch., 1900 Euclid Bldg., Cleveland, Ohio, will prepare plans for one-story, 66x75-ft. church for First Presbyterian Church. Estimated cost, $40,000.

Ohio, West Manchester—Bids will be received until noon, Dec. 4, by Board of Education for grade and high school.

Ind., Auburn—Board of Education contemplates building high school. Estimated cost, $50,000. M. Boland, Pres. Bd. of Education.

Ind., Columbus—Bartholomew County Trustees will build new hospital. Estimated cost, $100,000.

Ind., Fowler—Bids will be received early in spring for two-story grade and high school for J. Sheedy, Trustee. J. F. Alexander & Son, 105 North Fourth St., La Fayette, Ind., Arch. Estimated cost, $50,000.

Ind., Hammond—Plans being prepared by Albert A. Schwartz, Arch., 601 Straus Bldg., Chicago, Ill., for one-story, 80x100-ft. building for H. E. Moriarity and H. J. Kavanaugh. Estimated cost, $75,000.

Ind., Indianapolis—Preliminary plans being prepared by Rubush & Hunter, Arch., 428 American Central Life Bldg., for two-story moving picture theater for Samuel L. Cohn, San Francisco, Calif., and Morris Cohn, Denver, Colo. Estimated cost, $150,000.

Ind., Peru—City will build two-story city hall. Estimated cost, $75,000.

Ind., Richmond—Board of Education plans to build new high school. Estimated cost, $150,000. Sarah A. Hill, Secy.

Ind., South Bend—County Club will build two-story club house in spring. Estimated cost, $50,000.

Ind., Terre Haute—Indiana State Normal School will build science building. Estimated cost, $100,000.

Ind., Warsaw—Preliminary plans being prepared by S. A. Craig, Arch., Huntington, Ind., for two-story grade school. Estimated cost, $50,000. Wilbur Maish, Pres. Bd. of Education.

Mich., Grand Rapids—Bids will soon be received for buildings for Calvin College. Williamson & Crow, Arch. Estimated cost, $125,000. Noted Oct. 28.

Mich., Jackson—Citizens voted to issue $385,000 bonds for high school. Noted Oct. 21.

Mich., Lansing—Plans being prepared by J. N. Churchill, Arch., 514 Oakland Bldg., for two-story, 72x112-ft. school for Board of Education.

Mich., Saginaw—Eagles' Temple plans to build three-story lodge building. Estimated cost, $60,000. L. M. Lempke, 210 Franklin St., Interested.

Mich., St. Johns—Bids being received by J. N. Churchill, Arch., 514 Oakland Bldg., Lansing, for two-story, 50x100-ft. theater and lodge building for Odd Fellows Temple.

Ill., Bloomington—F. Wolkau, Sr., 920 Broadway, contemplates building theater.

Ill., Champaign—F. K. Robeson plans to build five-story office building.

Ill., Chicago—Plans being prepared for three-story assembly hall addition to Beaubien School for Board of Education. A. F. Hussander, Arch.

Ill., Winnetka—Plans being prepared by Carl W. Westerland, Arch., 111 West Washington St., Chicago, for two-story, 60x125-ft. theater and store building for Gustav Lindahl. Estimated cost, $45,000.

Wis., De Pere—Bids will be received about Dec. 1 for superstructure of three-story, 64x180-ft. building for St. Orbert's College. Estimated cost, $100,000. William Reynolds, 109 11th St., Green Bay, Wis., Arch. Noted Sept. 16.

Wis., Madison—Cosmoramic Amusement Co. will build theater. Estimated cost, $125,00. J. W. Bidwell interested.

Iowa, Alta—Election will soon be held to vote on bonds for building high school. Smith & Keffer, Arch., Des Moines. Noted Nov. 4.

Iowa, Ames—Bids will soon be received for three-story, 44x115-ft. hospital for city. Estimated cost, $60,000. A. B. Maxwell, City Clk.

Iowa, Des Moines—Board of Education will build seven-story grade school. Estimated cost, $100,000.

Iowa, Dubuque—Holy Ghost Church approved plans prepared by Guido Beck, Arch., for 60x160-ft. church. Estimated cost, $50,000.

Iowa, Estherville—F. H. Graaf plans to build theater. Estimated cost, $50,000.

Iowa, Ft. Dodge—Hope Martin and A. M. Krackman plan to build six-story office and store building. Estimated cost, $40,000.

Iowa, Iowa Falls—Capitalists of Iowa Falls plan hotel on site of Old Central House. Estimated cost, $40,000.

Iowa, Knoxville—Board of Education will build high school. Estimated cost, $75,000.

Iowa, Mason City—Western Electric Telephone Co. contemplates erecting business building. Estimated cost, $150,000.

Iowa, Mason City—School Board plans to build high school. Estimated cost, $200,000.

Iowa, Rowley—Bids will be received until 2 p.m., Nov. 22, by P. C. Thedens, Pres. of Consolidated Independent School District, for school.

Iowa, Waterloo—Bids will be received about Dec. 1 for general contract for three-story, 48x136-ft. parochial school for Sacred Heart Church congregation. Estimated cost, $50,000. Noted Oct. 7.

Minn., Appleton—Plans being prepared by Edwins & Edwins, Arch., 911 North West Bldg., Minneapolis, for two-story, 70x150-ft. high school. Estimated cost, $60,000. O. B. Carlson, Secy. Bd. of Education.

Minn., Bagley—Independent School District No. 2 voted $51,000 bonds for high school building.

Minn., Minneapolis—Plans being prepared by Hewitt & Brown, Arch., for six-story bank and office building for Metropolitan National Bank.

Minn., Minneapolis—Plans being considered by Board of Directors of Y. M. C. A. for system of buildings consisting of central building and five branches. Estimated cost, $1,000,000 E. L. Carpenter, Pres.

Minn., Minneapolis—W. D. Riley, Pastor of First Baptist Church, interested in a plan to build a missionary school at 11th St. and Harmon Pl., to be known as Northwestern Bible and Missionary School. Estimated cost, $750,000.

Minn., Minneapolis—Plans being prepared for four-story, 45x120-ft. theater and office building by James A. Burner, Arch., 845 McKnight Bldg. Estimated cost, $40,000.

Minn., Ortonville—Bids will soon be received for two-story school for Board of Education. Estimated cost, $55,000. Robert Hunter, Clk. Bd. of Education.

Minn., Rosemount—School Board will build school. Estimated cost, $40,000.

Minn., St. Paul—Plans being prepared by A. H. Stem, Arch., 601 Endicott Bldg., for 10-story club and office building for St. Paul Athletic Club. Estimated cost, $500,000.

Minn., St. Paul—Commercial Street Bank will build two-story bank building.

Minn., Stillwater—Plans are being prepared by C. H. Johnson, Arch., 715 Capital Bank Bldg., for three-story women's prison for the state of Minnesota.

Minn., Warren—Plans being prepared by Kirby T. Snyder, Arch., 643 Plymouth Bldg., Minneapolis, for two-story high school for Board of Education. Estimated cost, $45,000.

Kan., Emporia—Bids will be received until Nov. 30 by E. T. Hackney, Pres. Bd. of Administration, for four-story, 68x268-ft. administration building for state. Estimated cost, $175,000.

Kan., Topeka—R. Marks, 213 Third St., contemplates the construction of a 10-story office building. Estimated cost, $100,000.

Kan., Winfield—Board of Education plans to build manual training building. Estimated cost, $40,000.

Neb., Chadron—Bids will soon be received for bank and office building for C. F. Coffee and B. F. Putman. James C. Stitt, 13 Norfolk National Bank Bldg., Arch.

Neb., Fremont—A company is being organized to construct a hotel at an estimated cost of $75,000. A. J. Eddy, interested.

Neb., North Platte—Election will be held Dec. 7 to vote on $60,000 bonds for school.

Neb., Omaha—Board of Education will build school in Waveland Park.

N. D., Crosby—Election will be held Dec. 14 to vote on $75,000 bonds for courthouse. W. E. Vadnais, County Audr.

Mont., Judith Gap—H. L. Bills contemplates building hotel. Estimated cost, $250,000.

Mo., Carthage—(Official)—Bonds for $101,390 sold for sanitarium for tuberculosis patients. Noted Oct. 21.

Mo., Columbia—Seventh Day Adventists plan to build college and church. Estimated cost, $50,00. F. L. Limerick, Clinton, Mo., interested.

Mo., Joplin—Board of Education postponed election to vote on $350,000 bonds for schools from Nov. 10 to Nov. 23. J. A. Becker, Pres. School Bd. Noted Oct. 28.

Mo., Kansas City—Plans prepared by Greenebaum & Hardy, Kansas City, for six-story store and hotel building for Acme Realty and Investment Co. Estimated cost, $125,000.

Mo., Kansas City—Bids being received by Smith, Rea & Lovitt, Arch., 602 Finance Bldg., for three-story, 40x108-ft. hotel for J. H. Harris, 901 East Armour Blvd.

Mo., Kansas City—Preliminary plans being prepared for Pythian Temple for Knights of Pythias. Madorle & Birdsall, Arch. Estimated cost, $75,000.

Mo., St. Louis—Metropolitan Opera House Co. of St. Louis contemplates opera house. Estimated cost between $500,000 and $600,000. W. H. McElfatrick & Co., 701 Seventh Ave., New York, N. Y., Arch.

Tex., Austin—Bids will be received until Nov. 24 by W. H. Cullen, Pres. School Bd., for three-story high schohol.

Tex., Ft. Worth—Trustees of Texas Woman's College plan to build dormitory. Estimated cost, $100,000. A. H. Boaz, Pres.

Tex., Sweetwater—Nolan County Commissioners contemplate holding election to vote on $150,000 bonds for courthouse.

Tex., Waco—J. M. Dawson, Pastor First Baptist Church, appointed chairman of committee which plans to build sanitarium. Estimated cost, $100,000.

Tex., Wichita Falls—Plans being prepared by Fl[illegible] & Clarkson, Arch., Wichita Falls, for three-story, 50x[illegible]-ft. temple for Masonic Lodge. Estimated cost, $50,000.

Okla., Alva—Board of Education contemplates holding election to vote on $100,000 for high school.

Okla., Muskogee—Oklahoma Baptist Hospital plans to build addition. Estimated cost, $40,000.

Okla., Tulsa—Bids will soon be received for five-story, [illegible]x140-ft. hotel at 509 South Main St., for H. R. Tetchum. Estimated cost, $50,000.

Okla., Tulsa—J. C. Culbertson contemplates building four-story, 100-ft. deep, office building.

Colo., Colorado Springs—Vollmer Bros. will build a business building at Pikes Peak and Nevada Ave. Estimated cost, $50,000.

Colo., Denver—Board of Education plans additions to Garden Pl. School, Emerson School and Myrtle Hill building. Estimated cost, $50,000, $50,000 and $40,000 respectively.

Colo., La Junta—Local business men forming company to build store building. Estimated cost, $40,000.

Colo., Pueblo—Citizens voted to issue $300,000 bonds for new city hall. J. M. Jackson, City Clk. Noted Sept. 23.

Idaho, Caldwell—Grand Lodge of Odd Fellows plans to build lodge building. Estimated cost, $60,000.

Idaho, Gooding—(Official)—Bids will soon be received by G. W. Padgham, Secy., for Methodist College. Estimated cost, $400,000. Noted Oct. 14.

Utah, Salt Lake City—Plans prepared for station for Salt Lake & Ogden Railway and Salt Lake & Utah Railway. Estimated cost, $250,000.

Wash., Seattle—Plans prepared for 12-story building at Third and Cherry St. for James Moses. Estimated cost, $400,000. A. Warren Gould, Arch.

Ore., Astoria—Election will be held Nov. 29 to vote on $100,000 bonds for building new schools and improving old ones.

Ore., Baker—Election will soon be held to vote on $125,000 bonds for high school.

Ore., Portland—County Commissioners considering construction of armory. Estimated cost, $100,000.

Ore., Portland—Tentative plans prepared by Houghtaling & Dougan, Arch., Portland, for three-story temple at 20th and Washington St. for New Labor Temple Association. Estimated cost, $105,000.

Calif., Los Angeles—Plans being prepared by Harold Cross, Arch., 123 South Dillon St., for hospital for Kings Hospital Association. Henry D. Keys, Investment Bldg., interested.

Calif., Sacramento—University of California sold $1,800,000 bonds for four new buildings. Ralph P. Merritt, University Controller.

Ont., Hull—Plans being prepared for church for Sacred Heart Church. Estimated cost, $75,000.

Bids In and Contracts Awarded

Mass., Boston—Contract awarded to J. J. PRINDEVILLE CO. for 11-story building for Fidelity Trust Co. Estimated cost, $350,000.

Mass., Boston—(Roxbury)—Bids were received for addition to High School of Practical Arts, Greenville and Winthrop St., Roxbury, as follows: J. J. Flynn, 319 Washington St., Boston, $56,672; M. B. Nely, 114 Chestnut St., Brookline, $57,200; John Bowen, Roxbury, $59,000. Noted Oct. 28 and Nov. 4.

Mass., Chicopee—Contract for brick school for St. Stanislaus Polish Church awarded to GAGUIER & ANGIERS, Springfield. Estimated cost, $80,000.

Mass., Fall River—Darling Slade Construction Co., at $93,000 submitted lowest bid for remodeling Bay St. Jail. Noted Oct. 7.

Mass., Fall River—Fall River Union Hospital awarded contract for two-story nurses' home to C. F. GUNNIL, 402 South Main St. Estimated cost, $40,000.

Mass., Springfield—Contract for eight-story commercial building at State and Willow St. for Winthrop Building Associates awarded to EDWARD RADDING.

Conn., New Haven—Contract for addition to Cloister Club House on Hillhouse Ave. for Stone Trust Association awarded to SPERRY & TREAT CO. Estimated cost, $63,000.

Conn., Orange—Contract for addition to Washington School awarded to SULLIVAN & McKEOWN, 902 Chapel St., New Haven.

N. Y., New York—(Borough of Brooklyn)—(Official)—The contract for two-story lecture hall and greenhouse extension for Brooklyn Botanical Garden awarded to FRYMIER & HANNA CO., 25 West 45th St., at $140,223. Noted Nov. 11.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for store and office building at 54 Lexington Ave. for B. W. Mayer, 2 West 33d St., awarded to BROWN BROS., INC., 11 East 30th St., New York. Estimated cost, $65,000. Noted Oct. 14.

N. Y., Syracuse—Contract for Delaware School awarded to ONONDAGO BUILDING AND CONSTRUCTION CO., at $202,483.

N. Y., Troy—Contract awarded to C. W. BOWLAND, for freight house for Boston & Maine R.R.

N. J., Wildwood—(Official)—Contract for two-story school awarded to RICHMAND CONSTRUCTION CO., Moorestown, at $64,978. Noted Oct. 28.

Penn., Lebanon—Bids were received Oct. 29 by Board of School Directors for high school from W. H. Fissel & Co., N. Y., at $246,300; Melton Construction Co., at $209,995; Dawson Construction Co., $212,000. Noted Oct. 14.

Penn., Philadelphia—City Club awarded contract to A. RAYMOND RAFF for five-story brick and stone club house at South Broad St.

Penn., Philadelphia—Contract for office building at 16th and Walnut St. awarded to STACY REEVES & SONS, 2011 Market St., Philadelphia. Estimated cost, $400,000. Noted Nov. 4.

Penn., Pittsburgh—E. A. Wehr, Pittsburgh, submitted lowest bid for three-story office building on Butler St. for Atlantic Refining Co. Estimated cost, $100,000. Noted Oct. 14.

Penn., Sayre—Contract awarded to CORNING BUILDING CO. for brick addition to Packer Hospital. Estimated cost, $50,000.

Md., Baltimore—Public Service Building Co. awarded contract to GEORGE A. FULLER CO., Fuller Bldg., New York, N. Y., for steel frame for 20-story office building at Lexington and Liberty St.

Va., Petersburg—Petersburg Investment Co. awarded general contract for hotel to FULTON BRICK WORKS, Richmond, Va.

Va., Richmond—Contract awarded to J. T. NUCKOLS, at $55,000, for police station building at Smith and Marshall St.

Ohio, Akron—General contract awarded to CLEMMER & JOHNSON, Hicksville, for two-story auditorium and armory for State of Ohio. Estimated cost, $150,000.

Ohio, Cincinnati—Contract awarded to M. MARCUS BUILDING CO., for five buildings for Childrens Home. Estimated cost, $100,000.

Ohio, Cincinnati—Board of Control awarded contract for playhouse at Third St. Reservoir Park to WILLIAM MILLER & SON. Estimated cost, $40,000.

Ohio, Cleveland—Contract for church at Cedar Ave. and East 55th St. for St. Andrew's Episcopal Church awarded to EDWARD A. WEHR, Pittsburgh, Penn.

Ohio, Cleveland—Studio Realty Co. awarded contract to FATH CONSTRUCTION CO., Illuminating Bldg., Cleveland, for three-story store and service building. Estimated cost, $60,000. Noted Oct. 21.

Ohio, Cleveland—See item under "Miscellaneous."

Ohio, Dayton—(Official)—Contract for building for B. P. O. E. Lodge No. 56 awarded to STRUCTURAL CONCRETE CO., Dayton, at $90,000. Noted Sept. 23.

Ohio, East Cleveland—Board of Education awarded contract for two-story, 75x100-ft. school to CLEVELAND FIREPROOF CONSTRUCTION CO., 650 Rockefeller Bldg. Estimated cost, $60,000.

Ohio, Sidney—Ol. . Building and Construction Co., Cincinnati, submitted lowest bid for public library. Estimated cost, $50,000.

Ind., Dayton—W. H. Warren awarded general contract for two-story high and grade school to J. WESLEY REED, Hammond. Estimated cost, $40,000.

Ind., Terre Haute—Masonic Temple Association awarded contract to A. W. STOOLMAN, Champaign, Ill., for three-story building. Estimated cost, $100,000. Noted Nov. 11.

Mich., Muskegon—Occidental Hotel Co. awarded contract to BLAIS & JENSON, Muskegon, for four-story, 42x85-ft. hotel. Estimated cost, $40,000. Noted Aug. 12.

Ill., Cicero—Cicero Stickney High School District awarded general contract to SCHMIDT BROS. CONSTRUCTION CO., 105 North Clark St., Chicago, for addition to Sterling Morton School.

Ill., Decatur—Contract for structural steel and iron for five-story, 120x152-ft. theater and hotel awarded to DECATUR BRIDGE AND IRON CO.

Ill., Jacksonville—Contract will soon be awarded for two-story addition to hospital for Norbury Sanitarium. Estimated cost, $40,000.

Ill., Monmouth—Contract awarded to ENGLISH BROS. Champaign, for fireproof city hall. Estimated cost, $50,000.

Wis., Lake Geneva—Lake Geneva County Club awarded contract for one-story club house to REINET & MALEH, Lake Geneva. Estimated cost, $45,000.

Wis., Milwaukee—Contract awarded to JOHN H. PARKER CO., 315 Fourth Ave., New York, N. Y., for five-story, 120x200-ft. hotel for Charles Sommers and associates.

Iowa, Spencer—Contract for courthouse in Green County awarded to ROWLES CONSTRUCTION CO., at $168,000. Noted Oct. 14.

Minn., St. Cloud—General contract awarded to JOHNSON CONSTRUCTION CO., Minneapolis, at $112,112 for high school.

Kan., Kansas City—G. H. Nettleton Home awarded general contract to G. G. BROWN & SON, 1300 Rialto Bldg., for two-story, 142x154-ft. home for aged women. Estimated cost, $100,000.

Kan., Salina—Contract awarded to J. O. BROWN, at $61,539 for school. Noted Oct. 21.

Tex., Beaumont—Contract for constructing building for South Park School awarded to R. J. McBRIDE. Estimated cost, $50,000.

Tex., Denton—Contract for two additions to College of Industrial Arts awarded to GILSONITE CONSTRUCTION CO., St. Louis, Mo., at $78,000.

Tex., Houston—Contract for 10-story, 50x158-ft. office building at Main and Rusk St. for Gulf Refining Co. awarded to AMERICAN CONSTRUCTION CO., Houston. Estimated cost, $600,000.

Okla., Norman—University of Oklahoma awarded general contract to HOLMBEE CONSTRUCTION CO., 311 Majestic Bldg., for four-story, 60x120-ft. science hall. Noted Oct. 7.

Calif., San Francisco—California Street Realty Co. awarded contract for three-story office building at California and Davis St. to JAMES H. HJUL, at $175,000.

The Fargo Mfg. Co., Inc., has opened new offices at 52 Vanderbilt Ave., New York City. The factory and general office will be at Poughkeepsie, N. Y., as heretofore.

The Cleveland Galvanizing Works Co., Cleveland, Ohio, recently acquired 19 parcels of land adjacent to its present location which will permit the company to greatly enlarge its present plant and output, as soon as some leases expire.

DORCHESTER TUNNEL, BOSTON, MASS.

Section G

Bids were received Nov. 11 by the Boston Transit Commission for constructing Section G of the Dorchester Tunnel from (A) T. A. Gillespie Co., 50 Church St., New York, N. Y.; (B) Bruno & Petitti, Boston; (C) Low B. Cleveland, Watertown, N. Y.; (D) Coleman Bros., Chelsea, Mass.; (E) James J. Coughlin Co., Boston; (F) Hugh Nawn Construction Co., Roxbury; (G) P. McGovern & Co., Boston. The item bids were as follows:

	A	B	C	D	E	F	G
224 lin.ft. excavation between station 72 + 00 and station 74 + 24	$207.40	$260.00	$300.00	$200.00	$309.00	$229.00	$363.75
456 lin.ft. excavation between station 74 + 24 and station 78 + 80	153.55	120.00	250.00	155.00	235.00	177.75	271.60
320 lin.ft. excavation between station 78 + 80 and station 82 + 00	141.30	130.00	250.00	130.00	211.00	206.46	252.20
280 lin.ft. excavation between station 82 + 00 and station 84 + 80	145.90	167.00	200.00	139.00	220.00	165.20	252.20
620 lin.ft. of intercepting sewer	30.00	40.00	50.00	30.00	33.00	21.40	40.40
All concrete for 224 lin.ft. of tunnel between station 72 + 00 and station 74 + 24	169.40	195.00	160.00	168.00	175.00	177.14	202.00
All concrete for 456 lin.ft. of tunnel between station 74 + 24 and station 78 + 80	88.95	85.00	110.00	87.00	96.00	98.89	95.50
All concrete for 320 lin.ft. of tunnel between station 78 + 80 and station 82 + 00	77.75	81.00	100.00	81.00	85.00	80.07	95.50
All concrete for 280 lin.ft. of tunnel between station 82 + 00 and station 84 + 80	94.40	115.00	90.00	90.00	102.00	102.00	112.50
10 cu.yd. cinder concrete	5.00	8.00	8.00	5.00	10.00	8.00	7.00
150 cu.yd. brick masonry made with Portland cement mortar	15.00	16.00	18.00	16.00	18.00	18.00	20.00
750 lin.ft. 6 to 12-in. vitrified pipe, for permanent invert drain	.90	.75	1.00	.40	.50	.50	.50
1,750 lin.ft. 6 to 15-in. vitrified pipe, for house connections, etc.	.90	.75	1.00	.50	1.00	.75	.75
1,250 lin.ft. 18 to 30-in. vitrified pipe, for sewers	2.00	1.25	2.00	.90	1.00	1.00	2.00
900 tons reinforcing rods, etc., weighing less than 6 lb. per lin.ft. per ton of 2,000 lb.	8.50	10.00	10.00	8.00	7.00	7.00	9.00
15 tons steel and iron weighing 6 lb. or more per lin.ft. per ton of 2,000 lb.	18.00	20.00	15.00	16.00	15.00	15.00	20.00
4,000 sq.yd. Portland cement mortar, ½-in. or more in thickness	.30	.50	.25	.30	.60	.40	.60
50 cu.yd. grout made of neat Portland cement	14.00	20.00	20.00	15.00	16.00	20.00	17.00
100 cu.yd. grout made of one volume of Portland cement to one and one-half of fine sand	12.00	17.00	15.00	10.00	12.00	12.00	15.00
100 cu.yd. grout made of one volume of Portland cement to four of fine sand	10.00	13.00	12.00	7.00	5.00	6.00	12.00
50,000 sq.yd. prepared textile and asphalt	.40	.40	.25	.35	.40	.45	.60
Maintaining and protecting the buildings and structures on the line of the work, and all other work and risks (lump sum)	5,000.00	10,000.00	3,000.00	5,000.00	10,000.00	2,500.00	12,500.00
4,000 lin.ft. spruce piles	.45	.30	.40	.25	.30	.25	.25
Extended totals	$396,833	$419,097	$530,205	$382,364	$513,492	$439,521	$597,661

SEWER SYSTEM, MAYWOOD, N. J.

Bids were received July 26 for the construction of a sewer system at Maywood, according to plans prepared by Alexander Potter, 50 Church St., New York, N. Y. For Contract A, Subdivision (a) lateral sewers, and Subdivision (b) trunk sewers, bids were received from (A) MARTIN, MILLER & PIZZIMENTI, Caldwell, N. J. (awarded contract); (B) Fusco Construction Co.; (C) D'Napollo & Toriello Contracting Co.; (D) Frank Puglia; (E) Utility Construction Co.; (F) Allen Engineering and Contracting Co.; (G) Dock Contractor Co.; (H) Murphy Bros.; (I) Cestone Construction Co.; (J) Marrison & Hall; (K) Humphrey Engineering Co. For Contract B, sewage disposal plant, bids were received from (A) James R. Donnelly; (B) F. R. Long-W. G. Broadhurst Co.; (C) A. Vignola & Co.; (D) Heyman & Goodman Co.; (E) E. C. Humphrey; (F)Suburban Engineering Co.; (G) MARTIN, MILLER & PIZZIMENTI, Caldwell, N. J. (awarded contract); (H) P. T. Braunworth; (I) I. H. Card; (J) Fusco Construction Co.; (K) Di Napoli & Toriello Construction Co.; (L) Young & Hyde, Inc. The item bids were as follows:

Contract A—Subdivision (a)

	A	B	C	D	E	F	G	H	I	J	K
2,500 cu.yd. loose rock	$1.00	$1.50	$0.50	$1.25	$0.65	$0.50	$1.10	$0.75	$1.00	$0.75	$1.00
3,500 cu.yd. solid rock	1.00	1.75	1.40	2.00	1.50	1.50	2.00	2.50	1.75	2.50	2.50
2,500 cu.yd. wet earth excavation	.50	.25	.40	.40	.80	2.00	1.25	.60	.75	1.25	1.00
34,154 lin.ft. 8-in. vitrified pipe:											
2,732 lin.ft.0-6 ft. deep	.35	.37	.39	.40	.39	.44	.45	.61	.51	.45	.42
25,937 lin.ft. 6-8 ft. deep	.48	.40	.46	.45	.50	.56	.49	.77	.62	.60	.66
3,863 lin.ft. 8-10 ft. deep	.65	.50	.58	.65	.68	.65	.59	.92	.67	.80	1.04
1,472 lin.ft. 10-12 ft. deep	1.05	.62	.75	.90	.89	.78	.70	1.09	.93	1.25	1.65
150 lin.ft. 12-14 ft. deep	1.57	.75	1.10	1.30	1.65	.90	1.16	1.38	1.00	2.50	1.90
1,715 lin.ft. 10-in. vitrified pipe:											
665 lin.ft. 0-6 ft. deep	.45	.47	.48	.46	.46	.55	.49	.57	.63	.50	.48
360 lin.ft. 6-8 ft. deep	.57	.52	.54	.55	.58	.64	.58	.75	.75	.65	.72
320 lin.ft. 8-10 ft. deep	.80	.60	.66	.85	.78	.88	.79	.98	.90	.84	1.04
370 lin.ft. 10-12 ft. deep	1.15	.67	.85	1.10	1.00	1.10	.90	1.20	1.00	1.30	1.71
108 manholes	37.00	50.00	45.00	30.00	37.40	40.00	53.75	42.00	47.00	50.00	55.00
8 feet of drop manholes	3.00	8.00	5.00	2.00	15.00	4.00	5.00	5.00	10.00	4.00	10.00
21 flush tanks	70.00	100.00	100.00	75.00	65.00	75.00	95.00	74.75	97.00	70.00	75.00
500 branches on 8-in. pipe	.40	1.00	.60	.42	.55	.50	.50	.57	.50	.50	1.25
15 branches on 10-in. pipe	.60	1.25	.75	.75	.90	.65	.75	.80	1.00	.50	1.35
6,000 lin.ft. gravel foundation	.10	.25	.10	.15	.08	.10	.07	.17	.12	.20	.15
10 cu.yd. concrete masonry	7.50	8.50	10.00	7.00	13.00	6.00	8.00	5.75	10.00	9.00	8.50
20 M ft. b.m. sheeting and timber	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
14,300 lin.ft. macadam replaced	.15	.12	.08	.10	.10	.06	.28	.17	.12	.17	.50
Crossing of N. Y., S. & W. R.R., 27 lin.ft. of 8-in. steel pipe	3.00	5.00	2.50	12.00	4.50	3.00	11.50	2.30	2.50	10.00	10.00
Extended totals	$35,334	$37,901	$34,518	$37,479	$36,802	$40,691	$44,933	$51,148	$44,080	$49,914	$57,538

Subdivision (b)

	A	B	C	D	E	F	G	H	I	J	K
1,000 cu.yd. loose rock	$0.75	$1.00	$0.50	$1.25	$0.55	$0.50	$1.10	$1.00	$0.50	$0.75	$1.00
900 cu.yd. solid rock	1.00	1.50	1.40	2.00	1.45	1.50	2.00	2.50	1.00	2.50	2.50
3,500 cu.yd. wet earth excavation	.50	.50	.40	.40	1.15	2.00	1.25	1.00	.90	1.25	1.50
953 lin.ft. 12-in. vitrified pipe:											
10 lin.ft. 0-6 ft. deep	.50	.50	.67	.75	.64	.62	.68	.80	.65	.50	.52
70 lin.ft. 6-8 ft. deep	.65	.57	.76	.80	.84	.73	.68	1.10	.80	.70	.81
220 lin.ft. 8-10 ft. deep	.80	.65	.92	.90	1.06	1.00	.89	1.25	.90	.85	1.00
653 lin.ft. 10-12 ft. deep	1.05	.70	1.19	1.10	.130	1.29	1.05	1.40	1.05	1.00	1.78
1,331 lin.ft. 15-in. vitrified pipe:											
105 lin.ft. 6-8 ft. deep	.85	.65	.87	1.00	1.04	.88	.90	1.10	.80	.65	1.00
360 lin.ft. 8-10 ft. deep	1.00	.70	.98	1.25	1.27	1.14	1.17	1.15	1.00	.90	1.41
600 lin.ft. 10-12 ft. deep	1.25	.82	1.18	1.75	1.55	1.48	1.30	1.27	1.35	1.40	1.92
266 lin.ft. 12-14 ft. deep	1.60	1.00	1.47	2.25	1.80	2.00	1.46	1.45	1.60	2.50	2.30
8,967 lin.ft. 18-in. vitrified pipe:											
6,953 lin.ft. 0-6 ft. deep	.85	.82	1.05	1.00	1.21	.91	.88	1.05	1.40	1.25	1.00
1,154 lin.ft. 6-8 ft. deep	1.00	.92	1.22	1.25	1.35	1.20	1.15	1.25	1.50	1.50	1.34
320 lin.ft. 8-10 ft. deep	1.50	1.00	1.37	1.70	1.62	1.50	1.26	1.60	1.70	1.65	1.65
210 lin.ft. 10-12 ft. deep	1.85	1.10	1.58	2.00	1.77	1.70	1.52	1.84	1.85	1.75	2.20
330 lin.ft. 12-14 ft. deep	2.05	1.25	1.86	2.25	2.17	1.93	1.65	2.18	2.00	3.00	2.40
6,615 lin.ft. 20-in. vitrified pipe:											
5,670 lin.ft. 0-6 ft. deep	1.05	.92	1.25	1.15	1.72	1.10	.95	1.15	1.50	1.45	1.25
730 lin.ft. 6-8 ft. deep	1.25	1.00	1.50	1.60	1.93	1.26	1.20	1.38	1.65	1.60	1.46
65 lin.ft. 8-10 ft. deep	1.65	1.10	1.71	2.00	2.25	1.53	1.42	1.84	1.80	1.80	1.77
150 lin.ft. 10-12 ft. deep	2.05	1.25	1.96	2.50	2.50	1.96	1.65	2.07	2.00	2.00	2.29
87 manholes	35.00	50.00	45.00	40.00	42.50	40.00	53.75	40.00	57.00	50.00	60.00
3 branches on 12-in. pipe	.60	1.50	1.00	2.00	.75	.75	.90	3.00	1.00	1.00	3.00
5 branches on 15-in. pipe	.90	2.00	1.50	2.00	.98	1.25	1.55	3.00	1.50	1.25	4.00
5 branches on 18-in. pipe	1.35	3.00	2.25	2.25	1.50	1.85	2.28	3.00	2.00	1.40	5.00
5 branches on 20-in. pipe	1.65	3.50	3.00	2.50	1.75	2.35	2.81	3.00	2.00	1.50	6.25
1,600 lin.ft. gravel foundation	.10	.30	.10	.15	.08	.10	.07	.20	.15	.20	.15
2,282 lin.ft. 12-in. c.i. pipe:											
1,210 lin.ft. 0-6 ft. deep	1.50	1.75	1.73	1.75	1.45	1.80	1.90	1.55	2.20	1.50	1.63
462 lin.ft. 6-8 ft. deep	1.65	1.80	1.90	2.00	1.58	2.00	2.15	1.78	2.25	2.00	1.93
440 lin.ft. 8-10 ft. deep	1.90	1.90	2.05	2.25	1.83	2.25	2.37	2.00	2.50	2.50	2.28
170 lin.ft. 10-12 ft. deep	2.25	2.00	2.34	2.90	2.18	2.40	2.67	2.30	2.55	3.00	2.95
1,555 lin.ft. 14-in. c.i. pipe:											
1,013 lin.ft. 0-6 ft. deep	1.85	1.85	2.10	2.00	1.61	2.00	1.82	1.90	2.75	1.75	1.90
500 lin.ft. 6-8 ft. deep	2.05	2.00	2.30	2.50	1.74	2.25	2.12	2.12	3.00	2.00	2.20
42 lin.ft. 8-10 ft. deep	2.40	2.15	2.55	3.00	2.04	2.75	2.38	2.53	3.25	3.00	2.50
2,200 lin.ft. 18-in. c.i. pipe, 0-6 ft. deep	2.30	3.00	2.95	2.00	2.15	2.25	2.70	2.87	3.07	2.50	2.50
240 lin.ft. 20-in. c.i. pipe, 0-6 ft. deep	2.75	4.00	3.50	3.25	2.65	2.50	3.00	3.45	20.00	3.00	2.80
40 cu.yd. concrete masonry	7.00	10.00	10.00	7.00	14.00	6.00	8.00	5.75	9.00	9.00	8.00
40,000 ft. b.m. sheeting and timber	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
4,000 lin.ft. macadam replaced	.15	.15	.08	.10	.10	.06	.28	.30	.10	.17	.50
Railroad crossings:											
117 lin.ft. 18-in. steel pipe	4.00	5.00	5.00	15.00	6.50	4.00	13.25	8.00	15.00	15.00	20.00
90 lin.ft. 12-in. steel pipe	4.00	3.00	3.50	14.00	5.50	3.00	9.15	6.30	10.00	10.00	20.00
27 lin.ft. 18-in. steel pipe	4.00	5.00	5.00	15.00	6.50	3.75	13.25	6.90	8.77	10.00	15.00
Coles Brook siphon (lump sum)	400.00	1,500.00	800.00	300.00	300.00	575.00	500.00	920.00	.....	5,600.00	545.00
Extended totals	$40,985	$43,972	$47,275	$48,395	$51,615	$48,709	$50,358	$51,315	$60,557	$56,117	$59,037

Contract B

	A	B	C	D	E	F	G	H	I	J	K	L
850 cu.yd. earth excavation	$2.00	$1.67	$2.75	$1.40	$2.50	$1.50	$2.50	$5.00	$4.75	$2.00	$2.00	$4.95
100 cu.yd. Class A concrete	15.00	14.36	10.00	21.00	15.00	14.50	16.00	13.50	13.50	7.50	20.00	12.65
29 cu.yd. Class B concrete	8.00	13.40	10.00	21.00	14.00	11.50	12.00	12.50	8.00	7.00	15.00	12.10
780 sq.ft. hy-rib partition, including reinforcement	.19	.36	.35	.30	.50	.30	1.00	.28	.48	.50	1.00	.46
230 bbl. of cement	1.63	1.65	2.00	2.00	1.65	2.20	1.50	1.70	1.95	2.00	2.00	2.30
9,800 lb. steel reinforcement	.03	.04	.03	.05	.04	.05	.10	.04	.035	.05	.10	.05
660 sq.ft. No. 23 triangular mesh	.045	.10	.04	.10	.15	.05	.25	.22	.04	.10	.30	.06
Superstructure	500.00	702.00	1,105.00	600.00	750.00	1,000.00	750.00	700.00	857.40	1,700.00	2,700.00	1,700.00
Equipment	898.00	985.00	895.00	1,030.00	1,015.00	1,450.00	1,500.00	800.00	933.00	500.00	800.00	1,840.00
Sludge bed	275.00	380.00	375.00	260.00	400.00	275.00	500.00	250.00	195.00	1,000.00	1,800.00	810.00
250 lin.ft. 16-in. c.i. pipe	2.50	2.52	2.55	3.00	2.60	2.95	2.00	2.40	2.47	4.00	2.25	4.00
Extended totals	$9,077	$9,579	$10,243	$10,789	$10,706	$10,734	$11,593	$11,861	$11,885	$12,259	$14,665	$16,591

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Connecticut—Plans prepared for Hartford, Meriden & New Britain Ry. for line from Meriden to Hartford via Kensington, New Britain and Newington, 20 miles. Louis Fiske, Branford, Pres.

New York—Champlain & Sanford R.R. Co. secured right-of-way for line from Sanford Lake, N. Y., to Ft. Ticonderoga, about 60 miles.

New York—Otsego & Herkimer R.R., Cooperstown, N. Y., contemplates improving its line. Estimated cost, $250,000. S. W. Mower, Cooperstown, Second Vice-Pres. and Gen. Mgr.

New Jersey—New Jersey & Pennsylvania Traction Co. contemplates double-tracking line on West Hanover St. from Greens Pl. to Calhoun St. Gaylord Thompson, Trenton, N. J., Vice-Pres. and Gen. Mgr.

Pennsylvania—New York Central & Hudson River R.R. plans to build branch from Keating to Avis. G. W. Kittredge, Grand Central Terminal, New York, N. Y., Ch. Engr.

Pennsylvania—Rights-of-way obtained for third rail electric railway system throughout central Pennsylvania. Road will connect Scranton, Kingston, Mocanaqua, Shickshinny, Berwick, Bloomsburg, Danville, Northumberland, Sunbury, Harrisburg, Sunbury Shamokin, Mt. Carmel, Tamaqua and Hazleton. J. F. Richards, Sunbury, interested.

Pennsylvania—Hershey Transit Co., Hershey, will extend line to Hamburg. J. B. Lightheiser, Hershey, Gen. Mgr., H. N. Herr, Ch. Engr.

Virginia—Contract will soon be awarded for line from West Point to Urbana, 17 miles, for Richmond, Rappahannock & Northern Railway Co., Richmond, Va. C. L. Ruffin, 514 American National Bank Bldg., Richmond, Ch. Engr. Noted Sept. 30.

West Virginia—Virginian Ry. contemplates extending line from Bluefield, W. Va., to Shelby Junction, Ky., to connect with Chesapeake & Ohio R.R., 63 miles.

Georgia—Southern Ry. will build approaches for its line to new union passenger station in Macon. Estimated cost, $100,000. B. Herman, Washington, D. C., Ch. Engr.

Florida—Right-of-way secured for municipal railroad from new dock to connect with main line of Florida East Coast Ry. Charles D. Boise, New York, N. Y., Pur. Agt. Noted Aug. 19.

Florida—Gulf Coast Ry., recently incorporated, will build line from Venice southeast to Placida, 22 miles.

Alabama—Louisville-Nashville R.R. contemplates building three-mile spur from Altoona to Walnut Grove. W. H. Courtenay, Louisville, Ky., Ch. Engr.

Alabama—Pensacola, Mobile & New Orleans R.R. will extend line from Daphne to Mobile Bay and Pinto Island, 17 miles. H. McLaughlin, Pensacola, Fla., Pres.

Ohio—Baltimore & Ohio R.R. contemplates extending Findlay, Ft. Wayne & Western Ry. from Findlay to Tiffin. F. L. Stuart, Baltimore, Md., Ch. Engr.

Michigan—Boyne City, Gaylord & Alpena R.R. contemplates extending line from point east of Atlanta, Mich., towards Alpena, nine miles. M. D. Gates, Boyne, Mich., Ch. Engr.

Illinois—It is reported that construction will be started in spring for proposed electric railway to connect Marion, Johnson City and Herrin with Benton and Harrisburg. W. H. Schott, 1813 Harris Trust Bldg., Chicago, Ill., interested.

Kansas—Chicago, Rock Island & Pacific Ry. contemplates double-tracking line in spring from Topeka to McFarland, 38 miles. A. E. Swat, Topeka, Kan., Gen. Mgr., Second District.

Kansas—Greensburg, Coldwater & Northwestern R.R. Co., recently incorporated, contemplates building 210-mile railway from Coldwater across state of Kansas to Almena on Nebraska line. P. Z. Wardall, Greensburg, Kan., Interested.

Oklahoma—Project under way for building interurban railway from Bartlesville to connect Nowata and Pawhuska. George C. Priestly, Bartlesville, interested.

Colorado—Colorado, Wyoming & Eastern Ry. had surveys made for line from existing line at North Gate, Colo., southwest to Hayden, 90 miles. J. M. Herbert, Laramie, Wyo., Pres.

Utah—Salt Lake & Utah R.R. plans to extend electric line from Provo to Olmstead via Pleasant View. W. R. Armstrong, Salt Lake City, Gen. Mgr. and Ch. Engr.

Washington—Surveys made and right-of-way secured for railroad 12 miles, with eight miles of branches and spur tracks for Cascade Lumber Co., North Yakima.

Washington—Chicago, Milwaukee & St. Paul Ry. Co. has had surveys for extension to line from Metaline to Northport, 30 miles.

Oregon—Central R.R. of Oregon plans to build line from Union, Ore., to Walla Walla, Wash., 77 miles, and branch line from Union to Medical Springs, 22 miles. G. E. Dunklee, Union, Ore., Gen. Mgr.

Oregon—Surveys completed for eight-mile extension of railroad into Siletz Basin for Falls City Lumber Co., Falls City, Ore.

Oregon—J. L. Soule asked Council for franchise to build and operate electric railway in Baker. Commercial Club, Baker, interested.

California—Pacific Gas and Electric Co. contemplates extending East Lawn line through Elmhurst to State Fair Grounds. John H. Hunt, San Francisco, Pur. Agt.

California—Patterson & Western Ry. Co. secured right-of-way for railway from Patterson to Mt. Hamilton, about 25 miles. H. G. Ginica, Pres. Noted Oct. 14.

Nova Scotia—Surveys made for extension of line of Cape Breton Ry. Co. from St. Peters northeast to Sydney, 60 miles. G. E. Johnson, St. Peters, N. S., Secy. and Gen. Mgr.

New Brunswick—Kent Northern Ry. plans to build line from Kent Junction southwest to Chipman, about 50 miles. Surveys being made. W. B. Cronk, Richibucto, N. B., Vice-Pres.

Ontario—Council of Toronto authorized Toronto Civic Railway to build Bloor St. Line from Dundas St. to Quebec Ave. Estimated cost, $125,000.

Alaska—Peabody-Alaska Copper Co. plans to build tramway near Valdez, about 15 miles. Estimated cost, $10,000 per mile. C. L. Peabody, Pres.

Bids In and Contracts Awarded

Tennessee—Nashville & Eastern Railway, Nashville, awarded contract for line from Lebanon to Smithville, 35 miles, to MYERS CONSTRUCTION CO., Chicago, Ill. C. T. Edwards, Nashville, interested. Noted Sept. 2.

Kentucky—Contract for building north end of Cumberland & Manchester R.R. running from Barbourville to Manchester, Ky., awarded to E. G. and W. T. GARRARD.

Missouri—Mexico & Santa Fé R.R., Mexico, awarded contract to MEXICO INVESTMENT AND CONSTRUCTION CO. for electric railway from connection with Chicago & Alton R.R. at Mexico to point in Monroe County, 16 miles northeast.

LIGHT, HEAT AND POWER

Proposed Work

Maine, Biddeford—Pepperell Manufacturing Co. will build a new power plant to furnish power and light in its cotton mills.

Maine, Skowhegan—Central Marine Power Co. plans to extend its lines to Malbon Mills and Athens.

Maine, Turner—Turner Light and Power Co. has been granted permission to extend its transmission lines to Buckfield and furnish electric service.

N. Y., Delevan—Plans being considered for installation of municipal-electric light plant.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by E. S. W. Elwood, Secy. of State Hospital Commission, Capitol, Albany, until 2:30 p.m., Dec. 2, for heating work, power plant, heating system and equipment at Manhattan State Hospital, Wards Island, New York. (See adv.).

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by John A. Kingsbury, Comr., Dept. of Pub. Charities, 10th Floor, Municipal Bldg., until 10:30 a.m., Dec. 2, for furnishing labor and materials required for constructing and installing new steam supply and return lines between power house and main building of city hospital district, Blackwell's Island.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Nov. 30, for furnishing, delivering and installing complete with all appurtenances two steam drums for Babcock & Wilcox boiler at West New Brighton destructor.

N. Y., Oswego—Niagara, Lockport & Ontario Power Co., Buffalo, has been granted permission by Public Service Commission to build transmission line across West River Rd. in Oswego, to furnish energy to Syracuse, Lake Shore & Northern line of Empire United Railways.

N. J., Keyport—Plans being prepared for new substation at Stone Church to replace portable one now in use for Jersey Central Traction Co. New station will supply energy to Highlands and adjacent towns.

N. J., Woodbridge—Port Reading R.R. granted franchise for new power line along Turtle Brook Rd.

Penn., New Brighton—Borough Council considering plans for installation of municipal electric-light plant. Estimated cost, $57,175.

W. Va., Fenwick—City Council considering installation of electric-light plant.

W. Va., Pennsboro—Pennsboro Ice and Water Co., recently incorporated, plans to install electric-light plant. Estimated cost, $25,000.

Ga., Metter—Election will be held in December to vote on $7,500 bonds for electric-light plant.

Ga., Waycross—Plans being considered by O. L. Dittmar and B. G. Appleby, of Michigan for gas plant and distributing system. Estimated cost, $150,000.

Fla., Ft. Pierce—Ordinance passed by City Council authorizing $25,000 bond issue for improving municipal electric-light system.

Fla., Lakeland—See item under "Water Works."

Miss., McComb—McComb & Magnolia Railway and Light Co. contemplates building power plant. H. W. Bell, Laurel, Engr.

Ky., Providence—Citizens voted $20,000 bonds for municipal electric-light plant.

Ohio, Perrysville—Bids will be received by L. W. Truman, Clk., until noon, Dec. 27, for purchase of $6,000 bonds. Proceeds will be used for improving electric-light plant.

Ill., Chicago—Morris & Co., will build a three-story boiler house on Ashland Ave. Estimated cost, $31,000.

Ill., Peoria—Central Illinois Light Co. has been granted franchise by Public Utilities Commission to erect transmission line between Maquon and Yates City, Knox County.

Wis., Lowell—Lowell Light and Power Co. has had plans prepared for installation of electric-light plant. Estimated cost, $10,000.

Wis., Merrimack—A. M. Farnsworth has been granted franchise to install electric-light plant.

Minn., Plummer—Plans being considered for installation of municipal electric-light plant.

Minn., Tracy—Franchise has been granted to E. W. Erick to install electric-light plant in Tracy.

Kan., Arkansas City—Election will be held Dec. 14 to vote on $200,000 bonds for gas distribution plant and pipe line to field south west of city.

S. D., Ashton—Spink County Power Co. will install electric-light plant. H. Triplett, Redfield, Engr.-in-charge.

S. D., Winner—Floyd D. Hunt, Chicago, Ill., plans to install electric-light plant in Winner.

Mo., Branson—Citizens contemplate granting a franchise for an electric-light plant to C. C. Bradshaw, Frontenac, Kan.

Mo., Crane—Press reports state that company is being organized to build electric-light plant in Crane.

Tex., Atlanta—Atlanta Electric and Ice Co., will build electric-light and power plant in Atlanta.

Tex., Victoria—Application has been made to City Council by P. J. Sult, Pres. of Columbus Gas Construction Co., Milwaukee, Wis., for franchise to build gas plant.

Okla., Bartlesville—A. J. Discher, at head of company recently organized with capital of $1,500,000, plans to build gas pipe line into Newkirk gas fields.

Okla., Westville—Citizens voted $10,000 bonds for improving electric-light plant. Noted Nov. 18.

Idaho, Arco—Richard W. Ferris applied to Public Utilities Commission for permission to build and operate electric light and power plant in Arco, Blaine County. Estimated cost, $5,000.

Wash., Poulsbo—Franchise granted Poulsbo Light and Power Co. for construction of electric-light plant and to build and maintain transmission lines in Kitsap County.

Wash., Valleyford—Valleyford Water Co. plans to install electric-light system in Valleyford. A. E. Jones, Pres.

Calif., Burbank—Citizens voted $30,000 bonds for electric-light plant and distributing system. Noted Sept. 30.

Calif., Redding—Plans being considered for municipal electric-light plant.

Calif., Riverside—Pacific Power Co. plans for power development on Levining Creek in Mono County. Work will consist of two miles of tunnnel through granite rock, 4,000-ft. of steel pressure line and a 10,000-kw. installation consisting of hydraulic and electric equipment. C. O. Poole, Riverside, Ch. Engr.-in-charge.

Ont., Granton—Town Council will install hydro-electric lighting system. Estimated cost, $5,000. Noted Sept. 16.

Man., Winnipeg—M. Jance and Boomer & Hughes negotiating with city to build gas pipe line to supply city.

Bids In and Contracts Awarded

Ohio, Columbus—(Official)—Contract for heating and plumbing for two-story shop building for Ohio State University awarded to HUFFMAN ANKLIN CO., Columbus, at $17,731.

Ill., Chicago—Bids were received Nov. 13 for (a) heating work, (b) electric work in Chicago Municipal Tuberculosis Hospital as follows: (a) William A. Pope, $17,249, Henley-Casey Mechanical Equipment Co., $17,690, Mehring & Hanson Co., $18,145; (b) Lake City Electric Construction Co., $4,458, United Electrical Construction Co., $7,785, F. E. Newberry Electric Co., $7,940.

Wis., Milwaukee—See item under "Industrial Works."

Wis., Stevens Point—(Official)—Contract for electric wiring of main building and wing the State Normal School awarded to NATWICK ELECTRIC CO., Grand Rapids, at $4,097. Noted Oct. 28.

Kan., Little River—(Official)—Contract for electric-light plant and distributing system awarded to F. D. MARTIN CONSTRUCTION CO., Kansas City, Mo., at $15,163. Noted Nov. 11.

Calif., Riverside—Pacific Power Co. has awarded contract to DUNCANSON & HAROLDSON, San Francisco, for two multiple arch concrete dams in Mono County.

Ont., Exeter—Contract for hydro-electric system awarded to B. BAWDEN, Exeter. Estimated cost, $5,000. Noted July 29.

Ont., Hamilton—Board of Control awarded contracts for equipment for Mt. Hamilton Hospital to ADAM CLARK, $25,000, plumbing and heating; CULLEY & BREAY, $9,010, electrical equipment.

BRIDGES

Proposed Work

Conn., New London—Plans being prepared by engineers of New York, New Haven & Hartford R.R. for bridge over Thames River at New London. Estimated cost, $2,500,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by F. J. H. Kracke, Comr. of Bridges, Municipal Bldg., until 2 p.m., Dec. 9, for constructing Unionport bridge over Westchester Creek.

N. C., Bryson City—See item under "Streets and Roads."

Ga., Savannah—Commissioners of Chatham County will build four steel drawbridges in connection with road from Savannah to Tybee Island.

Fla., Clearwater—Government has granted E. W. Parker, Curry Bldg., and associates, permission to build two-mile bridge from Clearwater to Clearwater Key.

Miss., Holly Springs—Bids will be received by C. H. Wright, Clk. Bd. of County Supervs., until Dec. 6, for four bridges on Red Bank Creek.

Tenn., Carthage—Election will be held Dec. 30 in Smith County to vote on $300,000 bonds for bridges and roads.

Tenn., Clinton—Commissioners of Anderson County will rebuild steel bridge across Clinch River on Clinton-Knoxville Pike.

Ohio, Lorain—(Official)—Bids will be received by F. L. Ellenberger, Clk. of Bd. of County Comrs., until 1 p.m., Dec. 8, for constructing cribbing at Erie Ave. bridge, Black River Township.

Mich., Monroe—Election will soon be held to vote on $60,000 bonds for bridges.

Mich., Ypsilanti—City contemplates viaduct over tracks of Michigan Central Railroad at Miles St.

Ill., Marion—(Official)—Bids will be received at office of County Superintendent of Highways, Marion, until 1:30 p.m., Nov. 30, for bridge in West Marion Township, Williamson County.

Wis., Milwaukee—Plans will be prepared for bridge over Milwaukee River at North Ave. Estimated cost, $240,000.

Neb., Lincoln—Bids will soon be received for steel or concrete bridge across South Platte River. Estimated cost, $30,000.

S. D., Yankton—Citizens voted $300,000 bonds for bridge across Missouri River at Yankton. Noted Oct. 21 and Nov. 4.

Ark., Texarkana—Commissioners of Miller County Bridge and Highway Improvement District No. 1 contemplate bridge across Red River and 60 miles of roads.

Tex., Midland—Plans being considered by Midland & Northwestern Ry. for 400-pile trestle in connection with 65 miles of railway from Midland to Seminole.

Ariz., Avondale—A reinforced-concrete bridge will be built across the Agua Fria River at Avondale. Estimated cost, $20,000.

Que., Windsor Mills—Town Council contemplates construction of steel bridge. Estimated cost, $6,000. D. McCarthy, Mayor.

B. C., Vancouver—Plans being considered by City Council and Vancouver Sewage Commission for constructing Stanley Park Causeway and trunk sewer across coal harbor. Estimated cost, $40,000. F. L. Fellowes, City Engr.

Bids In and Contracts Awarded

Conn., Hartford—(Official)—Bids were received Nov. 15 for reinforced-concrete bridges and widening of causeway in Haddam Township as follows: Donahue Bros., Middletown, $6,217; F. D. Miller, Norwich, $6,707; A. Brazos & Sons, Middletown, $7,053.

Conn., Hartford—(Official)—Bids were received Nov. 15 for concrete bridge on Hartford-Saybrook Turnpike, Chester Township, as follows: J. G. Holbrook, Westbrook, $6,165; A. Brazos & Sons, Middletown, $6,439; Charles A. Sibley, New Haven, $10,073.

N. J., Perth Amboy—Contract for reinforced-concrete slab bridge on Brace Ave., Perth Amboy, awarded to ABRAHAM JELIN, New Brunswick. Noted Sept. 23.

N. J., Plainsboro—Contract for bridge on Trenton Division of Pennsylvania R.R. at Plainsboro awarded to STILLMAN-DELEHANTY-FERRIS CO., Jersey City. Noted Nov. 18.

La., New Orleans—(Official)—Midland Bridge Co., Kansas City, Mo., at $7,350, submitted lowest bid for viaduct at West End Lake Shore Park. Noted Oct. 28.

Tenn., Jefferson City—Contract for steel bridge across Holston River awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va.

Mo., Joplin (Official)—Contract for North Main St. viaduct awarded to HORTON CONSTRUCTION CO., Kansas City, at $18,890. Noted Nov. 11.

Tex., Longview—BLODGETT CONSTRUCTION CO., Kansas City, Mo., at $20,000, awarded contract for steel bridge across Sabine River.

Okla., Oklahoma—Contract for eight concrete bridges awarded to A. E. ALWARD, at $6,101.

Wash., Spokane—POOLE & BEAN, Portland, Ore., at $16,000, awarded contract for steel work on five viaducts.

Calif., Merced—Contract for reinforced-concrete bridge across Santa Rita Slough awarded to ANGLE & BIBBER, Dos Palos, at $4,725. Noted Oct. 21.

Calif., Riverside—HUGH G. PURCELL, at $11,357, awarded contract for bridge and trestle over Santa Ana River.

Calif., Visalia—Contract for three bridges over Cross Creek awarded to PARLIER CONSTRUCTION CO., Tulare, at $8,255.

N. B., Moncton—DOMINION BRIDGE CO., Montreal, Que., at about $125,000, awarded contract for superstructure of bridge over Petitcodiac River at Moncton.

N. S., Cape Breton—JONES, GIROUARD & CO., LTD., Plaza Bldg., Rideau St., Ottawa, Ont., awarded contract by Dominion Department of Railways and Canals for eight bridges on main line of Inter-Colonial Railway, Sydney Sub-division.

WATER WORKS

Proposed Work

N. J., Atlantic City—City will increase and improve water supply.

S. C., Bamberg—See item under "Sewers."

Ga., Metter—City will vote in December on $12,500 bonds for water works.

Fla., Ft. Lauderdale—City will issue $35,000 bonds for water works extensions.

Fla., Lakeland—(Official)—Bids will be received by J. R. B. Boulware, Secy., Bd. of Bond Trustees, until 10 a.m., Dec. 17, for additions to fire, water and electric systems. (See adv.)

Ala., Camden—Election will be held Dec. 6 to vote on $15,000 bonds for water system.

Ala., Citronelle—Bids will be received by City Clerk until Nov. 30 for water system. Bonds for $15,000 voted for this purpose. Noted Oct. 14.

Ala., Florence—Citizens voted bonds for $210,000 for purchase and improvement of property of Florence Water Co. and installation of filtration plant. Noted Oct. 21 and 28.

Ky., Williamsburg—Citizens defeated $25,000 bonds for water system. Noted Oct. 28.

Ohio, Bedford—See item under "Sewers."

Ohio, Glendale—(Official)—At recent election bonds for $8,500 for water system were defeated. Noted Sept. 23.

Mich., Flint—Preliminary plans prepared for addition of a water softening plant at city's water works plant. Estimated cost, $25,000.

Ill., Champaign—Two miles of 14-in. fire main will be laid in business district of Champaign and one mile of 10-in. fire main in downtown district of Urbana by Champaign & Urbana Water Co.

Ill., Kenosha—City contemplates installing filtration plant. Bids will soon be received for same.

Ill., Wheaton—Bids will be received until Dec. 2 by Water Supply Comr. for 200,000-gal. tank. L. J. Ruddock, Engr.

Ill., Wheaton—Citizens voted $35,000 bonds for improving and enlarging water system. Noted Oct. 21 and 28.

Iowa—Ft. Dodge—City voted $100,000 bonds for municipal dam.

N. D., Fargo—City plans an expenditure of about $500,000 for improving water and sewerage systems and for paving.

Mo., St. Louis—Board of Public Service is formulating plans to construct 36-in. c.i. pump main, from Bissell's Point pumping station to Compton Hill reservoir. Estimated cost, $300,000.

Ark., Pocahontas—Plans being prepared for water system and pumping station.

Tex., Goldthwaite—Citizens voted $31,000 bonds for water works.

Tex., Houston—City will expend $12,000 for additions and improvements to water works.

Colo., Castle Rock—City contemplates water system H. G. Johnson, Clk.

Okla., Commerce—Citizens will hold election to vote of $40,000 bonds for construction of sewer system.

Okla., Henryetta—Citizens will vote on Nov. 30, for $100,000 bonds for water works system.

Colo., Firestone—Citizens will hold election soon to vote bond proposition for construction of water works system.

Idaho, Boise—Plans of Wickahoney Land and Water Co., to irrigate 30,000 acres of land, have been approved and work will start at once.

Idaho, Minidoka—City will make application to Public Utilities Commission, Boise, for certificate of convenience for installation of municipal water system.

Idaho, St. Anthony—City Council is considering installation of new water system.

Wash., Seattle—Plans will soon be prepared for building a water system in vicinity of Issaquah.

Wash., Seattle—See item under "Miscellaneous."

Wash., Seattle—Bids will soon be received for a 24-in. water main through siphon tunnel at Third Ave. About $15,000 has been appropriated for this purpose.

Wash., Tyler—Harry E. Elrod, Engr., preparing plans for water works system. Estimated cost, $250,000.

Ore., Falls City—Bids will soon be received for water system.

Ore., Milwaukee—Bid will soon be received by City Council for installation of water distributing plant. J. W. Morris, Cy., Engr.

Ont., Brantford—City Council decided to repair dam. Estimated cost, $4,660.

Ont., Port Dover—City will install water works and gravity system combined with high pressure pumps. James, Loudon and Hertzberg, Consult. Engr.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contract for building Faneuil Valley Brook conduit, Brighton District, awarded to PETER W. HILL, 97 Proctor St., Boxbury, at $6,271.

Mass., New Bedford—DONALDSON IRON CO., Emaus, Penn., at $27,751, awarded contract for c.-i. pipe and special castings.

N. Y., LeRoy—(Official)—All bids received for 125,000-gal. tank rejected.

N. Y., New York—R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Penn., was lowest bidder for furnishing c.-i. pipe, specials and valve box castings, cast steel castings and valves. Noted Oct. 21.

Ky., Henderson—Contract for filtration plant awarded to FILTER MANUFACTURING CO., Pittsburgh, Penn. Estimated cost, $50,000.

Wis., Manitowoc—Contract awarded to PLATTE IRON WORKS, Dayton, Ohio, for installing 3,000,000-gal. pumping engine in municipal water works plant. Estimated cost, $8,845.

Iowa, Marshalltown—Contract to construct dam awarded to H. J. BENSON, Union, Iowa.

Minn., St. Cloud—Contract for 13,000-ft. of 6-in. c.-i. water pipe awarded to AMERICAN CAST IRON PIPE CO. Noted Nov. 11.

Tex., Galveston—UNITED STATES CAST IRON AND FOUNDRY CO., Chicago, Ill., at $26,440, awarded contract for 3,600-ft. of 30-in. pipe, for undergoing water main across Galveston Bay.

SEWERS

Proposed Work

N. Y., Buffalo—Bonds for $46,000 for trunk sewer have been voted.

Md., Baltimore—Bids will be received until Dec. 1 by Charles England, Chn., Sewage Comn., for lateral sewers in District No. 34-C, Sanitary Contract No. 170 and in District No. 39-A, Sanitary Contract No. 171.

N. C., Charlotte—Plans contemplated for east trunk sewer line. Estimated cost $60,000.

S. C., Bamberg—City contemplates voting on bonds to build sewer system and water works.

Fla., Ft. Lauderdale—City will issue $35,000 bonds for sewer extensions. George W. Hall, City Clk.

Fla., Ft. Myers—Citizens voted $25,000 bonds for improving sewer system.

Fla., Key West—Bids will be received until Jan. 4 by Harold Pinder, Clk. Bd. of Pub. Wks., for sewers from Greene and Duval St. to Front and Caroline St.

Tenn., Park—(Knoxville post office)—Bids will soon be received for constructing sewer laterals.

Ohio, Bedford—Bids will be received by H. T. Hubbell, Clk., until noon, Dec. 22, for sale of $4,164 bonds. Proceeds will be used for sewers and water main.

Ohio, Canal Dover—(Official)—Bids for sewage disposal plant will not be received this year. Noted Nov. 11.

Ohio, Lakewood—City plans new sewer and change in present sewer. Estimated cost, $175,000.

Ohio, Mansfield—Bids will be received until Dec. 1 for sewage-disposal plant. W. J. Hazeltine, City Engr.

Ohio, Youngstown—Plans prepared for concreting basin of Crab Creek from East Madison Ave. to Oak St. Work includes concrete trough 40-ft. wide and 12-ft. deep with two hewers. Estimated cost, $300,000.

Wis., Madison—City Council will be requested to include East Johnson St. from the Yahara River to North St. in storm sewer improvements next year. Estimated cost, $80,000.

Iowa, Emmetsburg—Bids will be received Dec. 6 for sewers in following streets: Seventh from Superior to Call St., thence on Call St. to Sixth St. T. F. Rutledge, City Clk.

Iowa, Lisbon—Contract will soon be awarded for sewer system and sewage disposal plant. Estimated cost, $30,000. Noted Oct. 7.

Iowa, Strawberry Point—Bids will be received about Dec. 21 by J. Schofield, Town Clk., for sewer system and sewage-disposal plant. Estimated cost, $23,000. M. Tschirgi & Sons, Cedar Rapids, Engr.

Minn., Duluth—Sanitary sewer will be built in 61st Alley west from Polk St. to Northern Pacific right of way, in Northern Pacific right of way, to outlet sewer between Main and Nicollet St. W. H. Borgen, City Clk.

Minn., Glencoe—City Council will lay sewer system on Greeley St. from Water to Washington St., thence west on Washington to Sibley St., thence south on Sibley St. to Penn St. Peter Hatz, Clk.

Minn., Lake Crystal—Citizens considering installation of sewers.

Minn., St. Cloud—Commercial Club contemplates storm sewers. Estimated cost, $8,800.

Minn., St. Paul—City plans to build sewers on Chatsworth St. from Otto to Race St., and on Race St. from Chatsworth to Alaska St. Estimated cost, $8,122.

Kan., Cherryvale—Bids will be received until Dec. 16 by M. Hartel, City Clk., for sewers in District No. 2. Noted Oct. 21.

Kan., Erie—Ordinance passed for sewer extensions and connections on Main and Santa Fe St. south to city limits. B. W. Garvin, Mayor.

Neb., Loup City—(Official)—Bond issue of $6,500 for sewer system defeated at election held Nov. 11. Noted Oct. 21.

Neb., Omaha—The Kenwood Fairfax, Fontelle Park and Lincoln Heights Improvement Clubs plan to establish a sanitory sewer district from 43rd and Ohio St. to 36th and Sprague St.

N. D., Fargo—See item under "Water-Works."

Mont., Glendive—City will vote on $70,000 bonds for sewer improvements.

Mont., Manhattan—City plans to install sewer system at an estimated cost of $200,000.

Okla., Shawnee—F. D. Brown, City Engr., preparing plans for about 20 blocks of 6- and 8-in. vitrified sewer pipe.

Okla., Tulsa—Bids will be received by City Auditor until Nov. 29, for sanitary sewer system in Sewer District Nos. 102 and 103. T. C. Hughes, City Engr.

Wash., Seattle—See item under "Miscellaneous."

Ont., Bertie—Township Council will rebuild sewage system in connection with Ft. Erie race track.

B. C., Vancouver—See item under "Bridges."

Bids In and Contracts Awarded

Mass, Boston—Bids were received Nov. 12 for reconstructing Malden River siphon between Everett and Medford as follows: Bay State Dredging Co., 241 Atlantic Ave., $29,110; G. M. Byrne, 166 Devonshire St., $26,000; C. H. Haskins, West Medford, $31,240.

Mass., Boston—Bids were received Nov. 15 for sewer in Canal St. as follows: W. Barrett & Co., Roxbury, $9973; A. Baruffaldi, Somerville, $10,947; J. J. Coughlin & Co., Boston, $14,372. Noted Nov. 11.

Mass., Boston—(West Roxbury)—(Official)—Contract for sewerage works in Woodman, Custer, Ballard, Bardwell, Hathaway, Center and Aldworth St. and Dunster Rd., West Roxbury, awarded to MATRINO DE MATTEO, 146 Dudley Ave., Roslindale. Estimated cost, $15,399. Noted Nov. 11.

N. Y., Albany—Sewage Disposal and Water Co. was low bidder at $71,115 for sewage disposal plant at Mohansic State Hospital.

N. Y., Lackawanna—Contract for South Park sewer awarded to CALDWELL, JOYCE, STARK CO., at $4,300.

N. J., Camden—(Official)—Contract for sewers in Pulaski, Ninth, 29th and 30th St., Sherman and Arthur Ave. and Park Blvd., awarded to KELLY & McFEELY CO., 432 Market St., Camden, N. J. Noted Nov. 11.

Fla., St. Cloud—Contract for sanitary sewer system awarded to WILBUR A. GINN, Sanford, Fla.

Ohio, Cleveland—Contract for excavating and installing drainage system and appurtenances for southerly sewage treatment works awarded to FRED R. JONES CO., Chicago, Ill. Estimated cost, $8,000.

Ohio, Fairport—City Council awarded contract for sewer and water connections in High, Seventh and East St. to CHARLES HUKARI, Ashtabula, Ohio. Estimated cost, $4,000.

Ind., East Chicago—SHEA & CO., 253 Highland St., East Chicago, at $13,595, awarded contract for main sewer in Washington St. Noted Oct. 14.

Ill., Rock Island—Contract for sewer system and sewage disposal plant and septic tank awarded to GEORGE W. WRIGHT. Noted Oct. 21.

Iowa, Burlington—George Peterson submitted lowest bid for building new sewer in Mt. Pleasant St. Noted Nov. 4.

Tex., Kaufman—Contract for sewer system awarded to E. L. DALTON, Dallas, at $19,977. Noted Oct. 14.

Colo., Edgewater—Contract for sewer system awarded to GIBBONS CONSTRUCTION CO., Denver, Colo. Estimated cost, $29,500. Noted Oct. 21.

Wash., Seattle—Contract for sewers in North and West 48th St. awarded to D. PARISI CO., 1506 Atlantic St. Seattle, at $9,551. Noted Sept. 16.

Calif., San Diego—(Official)—Contract for completing Ocean Beach sewer system awarded to DORAN & ARMSTRONG, San Diego, Calif. Noted Oct. 28.

Calif., Stockton—Contract for laying sanitary sewers in Homestead District awarded to WILLIAM E. EDWARDS, Oakland, Calif.

GARGBAGE

Proposed Work

Penn., York—Bids will be received until Dec. 3 for collection and disposal of garbage for a period of five years.

Wis., Green Bay—Common Council considering the installation of municipal garbage-incinerator plant. Estimated cost, $8,500. A. Brauns, City Engr.

Tex., Kingsville—City plans to build an incinerator plant. Estimated cost, $20,000.

STREETS AND ROADS

Proposed Work

Conn., Hartford—Public Utilities Commission and New York, New Haven & Hartford R.R. Co. have agreed to plans which provide for building of steel bridge with concrete abutments and a clearance of 14-ft. over Capitol Ave. extension. Estimated cost, $100,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Dec. 3, for constructing concrete sidewalks on west side of Broadway from 73d to 74th St.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Nov. 30, for furnishing and delivering seven trailers and for regulating and repaving 113th St. from west side of Broadway to a point 240 ft. west of west house line.

N. Y., New York—(Borough of Richmond)—(Officials)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Nov. 30, for regulating and grading Beechwood Ave. from Crescent Ave. to Fifth St.

N. Y., Tuckahoe—Bids will be received by John Matthews, Town Supt. of Highways of Eastchester at office of Town Clerk, Depot Sq., Tuckahoe, until 8 p.m., Dec. 6, for improving California Rd. between Mill Rd. and Highland Ave. and between Highland Ave. and Union Corners.

N. J., Brunswick—Plans will be prepared for section of George's Rd. to Mercer County line.

Penn., Media—Delaware County Commissioners appropriated $10,000 as the County's share of macadamizing Baltimore Pipe from Wawa to Chadd's Ford. Estimated cost of entire road, $100,000.

Penn., Uniontown—(Official)—Bids will be received by Board of Supervisors of Jefferson Township, Fayette County, until noon, Nov. 27, for improving public road beginning at Coal Center Ferry, Newell Village, Jefferson Township, Fayette County, and extending to Redstone Parsonage.

Penn., Wyomissing—City Council contemplates an expenditure of $30,000 for street improvements.

W. Va., Kingwood—Election will be held Dec. 7 in Preston County to vote on $500,000 bonds, half of which will be used for roads in Portland District and half in Kingwood District.

N. C., Danbury—(Official)—Citizens defeated $50,000 bonds for roads. Noted Oct. 21.

N. C., Elizabethtown—Bonds for $25,000 for road construction voted by Bladen County, Bladenboro Township.

N. C., Greensboro—Election will be held Dec. 14 to vote on $50,000 bonds for street improvements.

N. C., Halifax—City will issue $60,000 bonds, proceeds to be used for road construction.

N. C., King—(Official)—Citizens defeated bonds for road construction. Noted Oct. 28.

N. C., Lenoir—Election will be held Jan. 4 in Caldwell County to vote on $90,000 bonds, $50,000 of which will be used for road construction in Lenoir Township and $40,000 for road construction in Lower Creek Township.

Fla., De Land—Citizens defeated $110,000 bonds for roads and bridges in Volusia County Road District. New election will be held. Noted Sept. 30.

Ala., Birmingham—(Official)—Bids will be received by Board of Commissioners until 3 p.m., Nov. 30, for concrete sidewalks on First Ave. from 32d St. to 41st St. Estimated cost, $5,500. J. Kendrick, City Engr.

Ala., Camden—Election will be held Dec. 6 to vote on $4,250 bonds for street improvements.

Ala., Grove Hill—Commissioners of Clarke County plan to build road between Jackson and West End and Jackson Highway.

Ala., Tuscaloosa—Bonds for $4,000 will be issued by City Commissioners for improving 20th St.

Miss., Biloxi—Board of Supervisors of Harrison County contemplates an expenditure of about $200,000 for 22 miles of road from Biloxi to Pass Christian.

Miss., Cleveland—Bond issue of $150,000 for gravel road construction approved by Road District No. 1, Bolivar County.

Tenn., Carthage—See item under "Bridges."

Tenn., Decatur—Meigs County Commissioners rejected all bids for purchase of $100,000 bonds to be used for road construction. Noted Sept. 16.

Tenn., Huntsville—Commissioners of Scott County will issue $300,000 bonds for road improvements. W. H. Potter, County Judge.

Ky., Georgetown—Election will be held in Scott County Jan. 15 to vote on $100,000 bonds for roads. Noted Oct. 7.

Ky., Liberty—Election will be held Dec. 11 to vote on $100,000 bonds for road construction.

Ohio, Columbus—Bids will be received by Clinton Cowen, State Highway Comr., until 2 p.m., Dec. 3, for improving Section E of Cincinnati-Chillicothe Rd. in Hamilton County.

Ohio, Columbus—Bids will be receved by Clntiion Cowen, State Highway Comr., until 2 p.m., Dec. 3, for improving Section F of Cincinnati-West Union Rd. in Hamilton County.

Ohio, Columbus—Bids will be received by Clinton Cowen, State Highway Comr., until 2 p.m., Dec. 3, for improving Section G, Cincinnati-West Union Rd. in Hamilton County.

Ohio, Columbus—Bids will be received by Clinton Cowen, State Highway Comr., until 2 p.m., Dec. 3, for improving Section H of Cincinnati-Louisville Rd. in Hamilton County.

Ohio, Springfield—(Official)—Bids will be received by W. J. Barrett, City Audr., until noon, Dec. 13, for purchase of $7,000 bonds for improving East Hight St.

Ohio, Toledo—Bids will be received until Nov. 30 by County Commissioners for ¾ mile of water-bound macadam road.

Ohio, Youngstown—(Official)—Bids will be received by H. C. Fox, Clk., Dir. of Pub. Ser., until noon, Nov. 30, for paving Lincoln Park Drive between Shehy and Rigby St.

Ind., Anderson—Bids will be received until 10 a.m., Dec. 10, by Commissioners of Madison County, for 12 gravel roads and nine concrete roads.

Mich., Charlotte—Following streets will be paved by order of City Council: Cochran St. to Grand Trunk passenger station with brick; Washington Ave. from Lawrence Ave. to Seminary St. with cement pavement; McClure St. to Michigan Central and Grand Trunk with brick.

Wis., Kenosha—Kenosha County contemplates an expenditure of $65,805 for highway improvements in 1916.

Wis., Rhinelander—County Commissioners plan to issue $200,000 bonds. Proceeds will be used for improving roads in Oneida County.

Wis., Washburn—City plans to pave Main St.

Iowa, Atlantic—Atlantic Commercial Club is promoting the construction of a road from Atlantic to city limits. Estimated cost, $12,000. J. B. Jones and J. D. Goff, Members of Com.

Iowa, Missouri Valley—Citizens plan to pave portion of Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth and Ontario St., also several alleys.

Minn., St. Paul—City Council plans an expenditure of $13,333 for paving Grove St. with creosote blocks.

N. D., Fargo—See item under "Water Works."

Mo., Fayette—A road from Fayette to Glasgow along Old Trails Route, about 12 miles, will be constructed by Howard County.

Mo., Lebanon—Commissioners of Laclede County plan to hold election to vote on $250,000 bonds, $200,000 of which will be used for road construction.

Ark., Lake Village—County contemplates 40 miles of macadam or concrete road.

Ark., Texarkana—See item under "Bridges."

Tex., Crystal City—Bonds for $40,000 voted by citizens for road improvements.

Tex., Gilmar—Election will be held Dec. 11 to vote on $75,000 bonds for roads in Upshur County, Justice Precinct No. 7.

Tex., Jacksonville—(Official)—Citizens defeated $150,000 bonds for improving roads in Road District No. 1. Noted Nov. 4.

Okla., Collinsville—Citizens voted $30,000 bonds for road construction. Noted Nov. 11.

Okla., Verdigris—(Official)—Citizens voted $50,000 bonds for road construction. Noted Nov. 11.

Colo., Colorado Springs—County Commissioners appropriated $125,000 for road and bridge work in 1916.

Idaho, Idaho Falls—City Council plans to pave several streets. Estimated cost, $15,000.

Idaho, Jerome—Citizens of Appleton Highway District voted $25,000 bonds for highway construction.

Wash., Seattle—See item under "Miscellaneous."

Ore., Portland—City Council plans to pave East Stark St. from East Water to East First St.

Calif., El Centro—Bids will be received by State Highway Commission, 515 Forum Bldg., San Francisco, until Dec. 6, for 12 miles of concrete highway between Dixieland and El Centro.

Calif., Los Angeles—City Council plans to pave 64th Ave. from city limits to Meridian St.

Calif., Mill Valley—Board of Trustees contemplate an expenditure of $10,000 annually for improving streets for a period of five years.

Bids In and Contracts Awarded

Mass., Boston—(Dorchester)—Bids were received Nov. 16 for asphalt or bitulithic pavement in (A) Mendon Park from Upland Ave. to Bourneside St.; (B) Harwood St. from Williwood to Lucerne St. as follows: (A) D. M. Biggs & Co., Dorchester, asphalt, $5,483, Central Construction Co., Boston, asphalt, $5,528; J. Doherty, Roxbury, asphalt, $5,566, bitulithic, $5,577; (B) J. Doherty, Roxbury, asphalt, $6,221, bitulithic, $6,242; D. M. Biggs & Co., Dorchester, asphalt, $6,302; M. De Matteo, Roslindale, asphalt, $6,334, bitulithic, $6,355. Noted Nov. 11.

Mass., Boston—(Dorchester)—Bids were received Nov. 16 for asphalt or bitulithic pavement in Fernboro St. from Lawrence Ave. to Intervale St. as follows: J. Doherty, Roxbury, asphalt, $4,301, bitulithic, $4,315; M. De Matteo, Roslindale, asphalt, $4,418, bitulithic, $4,433; John Kelly Co., Roxbury, asphalt, $4,334, bitulithic $4,519. Noted Nov. 11.

Mass., Boston—(Grafton, Upton)—Contracts for asphalt and macadam road in Grafton and Upton awarded to PERINI CONSTRUCTION CO., Ashland, at $48,104. Noted Oct. 28.

Mass., Boston—(West Roxbury)—Bids were received Nov. 16 for asphalt or bitulithic pavement in Kittredge St. from Corbell to Beach St. as follows: C. J. Jacobs & Co., Roxbury, asphalt, $4,747, bitulithic, $4,715; M. De Matteo, asphalt, $4,753, bitulithic, $4,868; J. Doherty, Roxbury, asphalt, $4,899, bitulithic, $4,868. Noted Nov. 11.

N. Y., Albany—(Official)—Contracts awarded for constructing roads by State Aid as follows: Road No. 1317, Auburn-Weedsport Cayuga County, 8 miles: BRAYER BROS., Auburn, $123,709; Road No. 5,596, Mayville Village, Erie St., Chautauqua County, 0.79 mile: EDWARD T. BECK & CO., Wareen, Penn., $25,8000; Road No. 1,110, Leroy-Brockport Rd., Part 2, Genesee, County, 0.40 miles: ATLANTA CONSTRUCTION CO., Atlanta, $13,010; Road No. 1,253, Chaumont-Depauville, Jefferson County, 6.05 miles: HENRY BURGARD, Buffalo, $45,249; Road No. 512, Akin-Johnstown, Part 1, Montgomery County, 4.59 miles: ROUTLEY & SUMMERS, Huntington, Quebec, $29,528; Road No. 5,558, Oneida-Verona, Oneida County, 4.69 miles: J. G. HAYES CO., INC., Rome, $36,625; Road No. 5,597, Utica-Poland, Part 3, Oneida County, 5.34 miles: ROUTLEY & SUMMERS, Huntington, Quebec, $51,592; Road No. 1,338, Scotia-Saratoga County Line Part 1, Schenectady County, 4.22 miles. Award held. Noted Oct. 28 and Nov. 18.

N. Y., Buffalo—Contracts for paving various streets awarded as follows: Abbott Rd. and Frontenac and Lyndhurst Ave. to GERMAN ROCK ASPHALT AND CEMENT CO., D. S. Morgan Bldg., Buffalo, at $15,710, $10,990 and $6,315 respectively; Spaulding St. to CONSTANTINE CONSTRUCTION CO., at $6,269; Hubbell Ave., to ERIE CONTRACTING CO., at $6,385; Sprenger St., to SPIRE & PRIOR, at $22,490.

N. Y., New York—(Borough of Queens)—(Official)—Bids were received Nov. 18 for furnishing and delivering to Bureau of Highways 3,000 cu.yd. of broken stone and screenings of trap rock from New York Trap Rock Co., at $2.18 per cu.yd., and Haverstraw Crushed Stone Co., at $2.25 per cu.yd. Noted Nov. 11.

N. J., Stone Harbor—FRANKLIN ENGINEERING CO., Philadelphia, Penn., at $30,086, awarded contract for boardwalk at Stone Harbor.

Penn., Connellsville—J. I. DICK, Scottsdale, at about $15,1000, awarded contract for paving Washington Ave. and East Apple St.

Penn., Greensburg—(Official)—Contracts for road construction awarded as follows: Harrison City Export Rd. to JOHN HERRMANN, Latrobe, at $106,146, and Hecla-Hurst School House Rd. to F. T. BYERS, Mt. Pleasant, at $23,841. Noted Nov. 4.

Del., Wilmington—(Official)—Contract for improving Philadelphia Turnpike awarded to ALFRED H. McDOWELL, Marshallton, Del. Noted Nov. 11.

N. C., Bryson City—Commissioners of Swain County awarded contract for roads and bridges to WRIGHT JOHNSTONE CONTRACTING CO., Bryson City. About $110,000 available for this purpose. A. S. Patterson, Chn. of Comrs.

N. C., Newbern—Commissioners of Craven County awarded contract for 15 miles of road on principal highways leading out of Newbern to McGUIRE CONSTRUCTION CO., Norfolk, Va., and the BARRETT MFG. CO., Philadelphia, Penn., for surfacing with Tarvia B stone chip filler 4½ miles of road.

Fla., Homestead—Contract for Ingraham Highway from Homestead to Cape Sable awarded to J. B. McCRARY CO., Atlanta, Ga., at $93,000.

Fla., Miami—R. B. Fickle, at $9,535, awarded contract for preparing streets for oil pavement and FREEDLING CONSTRUCTION CO., at $7,877, for applying oil.

Fla., Titusville—Contract for 68 miles of road awarded to J. B. McCRARY CO., Atlanta, Ga., at $143,022. Noted Oct. 28.

Ky., Burlington—Contract for six miles of roads awarded to T. J. JUMP, Williamstown.

Ohio, Cincinnati—County Commissioners awarded contract to WESLEY TAULMAN, Hazelwood, at $10,212, for improving Symmestown Rd. from Conrey Rd. west to Lebanon Pike.

Ohio, Euclid—All bids received Nov. 8 by H. S. Dunlop, Village Clk., Town Hall, for improving Chardon Rd. rejected. Noted Oct. 14.

Ohio, Shawnee—Contract for completing paved road between New Straitville and Shawnee awarded to P. J. CONNELL, Cambridge City, Ind., at $38,000.

Ind., Indianapolis—(Official)—Lowest bids received by Board of Public Works for paving South Capitol Ave. from Merrill to McCarthy St. were from County Construction Co., Indianapolis, at $6,550, for asphalt, and A. D. Bowen, Indianapolis, at $6,800, for brick. Noted Oct. 28.

Ind., Indianapolis—Contract for improving 36th St. awarded to JOHN ARNOLD, at $4,100.

Ind., New Albany—(Official)—Contract for road in New Albany Township awarded to GAMES & JONES, Louisville, Ky., at $9,264.

Mich., Pontiac—Bids were received for completing concrete road between Kimble's Corners and Birmingham on Detroit Rd. from J. H. Baker & Sons, Port Huron, at $62,588, and R. D. Baker & Co., Detroit, at $62,090.

Mich., St. Joseph—County Commissioners awarded contracts for road work as follows: Pipestone Rd., Section 1, Niles Township, 15,092 lin.ft.; R. C. ATKINSON, Niles, Mich., $18,280 stone; Pipestone Rd., Sections H and G, Berrien Township, 61,030 lin.ft., CHARLES THOMAS, St. Joseph, $73,560; Three Oaks-Sawyer, Section C, Chikaming Township, 13,514 lin.ft., C. W. BOYES, Grand Rapids, $16,999; Galien-Stevensville, Section F, Galien Township, 15,126 lin.ft., D. L. VARING, Three Oaks, $18,175 for stone; Lake Shore Rd., Section D, Lake and Weesaw Townships, 26,007 lin.ft., FRANK C. TEACH, Crown Point, Ind., $33,500; Lake Shore Rd., Section F, New Buffalo Township, 12,770 lin.ft., B. W. BOYES, Grand Rapids, $17,495; Watervliet South Haven Rd., Section 1, Watervliet Township, 10,441 lin.ft., Paw River, Section G and Territorial Rd., Section F, 37,845 lin.ft., W. W. McCRACKEN, St. Joseph, $53,260; Niles Rd., Sections F, E and D, 50,391 lin.ft., FRED CUNNINGHAM, Martinsville, Ind., $82,725. Noted Oct. 7 and Nov. 4.

Minn., Wayzata—Contract for grading road through Wayzata awarded to McCULLOUGH & CHENEY, at $10,758. Noted Nov. 18.

Kan., Hutchinson—Contract for paving Poplar St. between Ave. A and Sherman St. with brick awarded to STAMEY & MACKEY, at $1.73 per sq.yd.

Kan., Wichita—Contract for eight miles of sand clay road awarded to L. J. GILLETTE, at $5,660. Noted Sept. 9.

Neb., Lincoln—ABEL & ROBERTS, at $12,303, awarded contract for paving several streets in District No. 312.

Mo., Kansas City—Contract for paving one mile of road awarded to NATIONAL PAVING CO., Kansas City, at $14,715.

Mo., Monett—Contract for oiled macadam paving on Fricco Ave. awarded to M. E. GILLOZ, 708 Euclid Ave., Monett, at $6,000.

Mo., Springfield—Contract for paving Boonville St. between Division and Pine St. and for two ft. on either side of rails of Springfield Traction Co. awarded to PLUMMER-ADAMS CO., at about $13,500.

Tex., Floresville—Contract for constructing roads in Precinct No. 4 awarded to BEXAR CONSTRUCTION CO., at $30,000.

Tex., Jourdantown—Contract for road construction in Atascosa County awarded to A. N. DAWSON, San Antonio, at about $100,000.

Tex., Longview—OWENS CONSTRUCTION CO., Vicksburg, Miss., awarded contract by Commissioners of Gregg County for 35 miles of road.

Tex., Stephenville—Contract for improving a number of roads awarded to A. N. DAWSON, San Antonio. Bonds for $120,000 voted for this purpose.

Okla., Muskogee—Contract for constructing gravel roads awarded to WILLIAM HEWETT. About $4,000 available for this purpose.

Ariz., Yuma—Contract for paving approximately 17 miles of highway with warrenite awarded to O. & C. CONSTRUCTION CO., Fullerton, at about $150,000.

Wash., Seattle—ROWAN & ANDERSON, Transportation Bldg., at $11,676, awarded contract for walks on Ferdinand St.

Calif., Lindsay—Contract for paving Hermosa St. awarded to WORSWICK PAVING CO., Fresno. Noted Sept. 23.

Calif., Los Angeles—Contract for improving Western Ave. from Temple St. to Fountain Ave. awarded to GEORGE R. CURTIS, at $49,366.

Que., Montreal—SICILY ASPHALTIC PAVING CO., LTD., 60 St. Viateur St., E., Montreal, awarded contract for paving St. Andre, Panet and St. Lawrence St.

Ont., Brockville—City will lay tarvia pavement on a number of streets by day labor. Estimated cost, $14,000. G. H. Bryson, Engr. Noted Sept. 30.

Ont., Toronto—Contract for asphalt paving on Condor and Empress St. awarded to R. C. HARRIS, Works Comr., at $4,143.

Ont., Toronto—GRANT CONTRACTING CO., at $15,795, awarded contract for brick block pavement on Coxwell Ave., and to COMMISSIONER OF PUBLIC WORKS, at $22,048, for sheet asphalt on portions of Bleecker St., Elmwood and Spring Grove Ave., also a portion of Coxwell Ave.

INDUSTRIAL WORKS

Proposed Work

Mass., Lowell—Wamesit Power Co. will build four-story, 75x85-ft. factory on Crosby St. Estimated cost, $27,000.

Mass., Springfield—Springfield Street Railway has had plans prepared for carhouse and shops on Hooker St. Estimated cost, $175,000.

Conn., Killingly—Plans being prepared for two-story, 152x172-ft. building for Killingly Manufacturing Co.

Conn., New Haven—Plans being prepared by Frank Elwood Brown, Arch., for three-story, 50x135-ft. plant for New Haven Dairy Co.

N. Y., Farmingdale—(Official)—Bids will be received until 2 p.m., Dec. 3, by William Wirth Mills, Secy., Bd. of Trustees, at New York office of Dept. of Agriculture, Room 1224, Woolworth Bldg., for construction work, etc., of garage at New York State School of Agriculture. (See adv.)

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared by Mulliken & Moelier, 103 Park Ave., Arch., for six-story 91.5x100-ft. garage and service station at 67th St. near West End Ave. for Hudson Motor Garage of N. Y., Inc., 1842 Broadway.

N. J., Camden—Plans being prepared by Ballinger & Perrott, Arch., Philadelphia, Penn., for six-story, 91x274-ft. and four-story, 76x233-ft. additions to plant of Victor Talking Machine Co., Front and Market St., Camden.

N. J., Jersey City—Henry Byrne plans to build factory on Mercer St. between Fremont and Factory St. Estimated cost, $13,000.

N. J., Jersey City—Great Atlantic & Pacific Tea Co. contemplates building factory on Warren St. Estimated cost, $110,000.

N. J., Newark—American Gas Accumulation Co., Philadelphia, Penn., will build four buildings at South Newark. Estimated cost, $300,000.

N. J., Perth Amboy—Nelson & Landsberg will build plant. Estimated cost, $20,000.

Penn., Harrisburg—Plans being prepared by C. Harry Kain, Arch., Harrisburg, for five-story cigar factory on State St. for T. J. Dunn & Co., New York, N. Y. Estimated cost, $40,000.

Penn., Kane—Aluminum Co. of America, Pittsburgh, Penn., has taken over French aluminum plant at Kane and will improve same.

Penn., Philadelphia—Supplee Alderney Dairies Co. will build three-story, 100x100-ft. ice cream factory at 3333 Ludlow St. Charles H. Casper, Arch.

Va., Radford—John H. Heald & Co., Lynchburg, Va., purchased site at Radford and will build extract plant. Estimated cost, $150,000.

Va., Richmond—Plans prepared by David L. Davis Co., Chicago, Ill., for five-story cold storage plant for Richmond Cold Storage Co. Estimated cost, $150,000.

W. Va., Weirton—Phillips Sheet and Tinplate Co. will build addition to strip steel plant at Weirton. Estimated cost, $1,000,000. B. M. Weir, Vice-Pres.

N. C., Charlotte—Plans prepared for 125x520-ft. factory for Climax Spinning Co., Belmont. Estimated cost, $125,000.

Ala., Mobile—Benjamin J. Glazier Realty and Engineering Co., Chicago, Ill., contemplates building a ship building and repair plant on Blakeley Island. Estimated cost, $5,000,000.

Tenn., Chattanooga—Ford Motor Co. will build reinforced-concrete garage. Estimated cost, $20,000.

Tenn., Kingsport—New York capitalists through John C. Herden, Engr., have selected site in Kingsport and will build dye plant.

Ky., Augusta—Bids are being received for 172x280-ft. warehouse for Burley Tobacco Society.

Ohio, Carthage—(Cincinnati post office)—Hess Springs and Axle Co. will build 200x200-ft. addition to plant on 66th St. Estimated cost, $60,000.

Ohio, Cleveland—Plans prepared by G. B. Bohn, Arch., 628 Williamson Bldg., for three-story, 75x120-ft. addition to plant of Federal Knitting Mills Co. at Detroit and West 28th St. Estimated cost, $40,000.

Ohio, Cleveland—Plans prepared by W. C. Ferguson Co., 1900 Euclid Ave., Cleveland, for two-story, 50x200-ft. factory at East 131st St. for Great Lakes Refining Co.

Ohio, Cleveland—J. McGrath will build factory at 7802 Finney Ave. Estimated cost, $15,000.

Ohio, Cleveland—Overland Automobile Co. will build garage and service building at East 66th St. and Euclid Ave. Estimated cost, $75,000.

Ohio, Cleveland—Sheets Bros. Elevator Co., 6529 Broadway, will build 50x200-ft. grain warehouse at East 131st St. and Erie R.R.

Ohio, Cleveland—Preliminary plans being prepared by Mills, Rhines, Bellman & Nordhoff, Arch., Ohio Bldg., Toledo, for three-story service station and garage for Willys-Overland Co. Estimated cost, $50,000.

Ohio, Dover—Dover By-Products Coke Co. will build coke plant in yards of Penn Iron and Coal Co.

Ohio, Lima—East Iron and Machine Co. purchased site at Lima and will build factory.

Ohio, New Philadelphia—Contract will be awarded about Dec. 1 for plant for New Philadelphia Paving Block Co. Estimated cost, $130,000. American Clay Machinery Co., Bucyrus, Ohio, Arch.

Ohio, Youngstown—Carnegie Steel Co. will build three additional open-hearth furnaces at Ohio Works. Estimated cost, $800,000.

Ind., Gary—According to press reports, the Indiana Steel Co. will build additions to local plant. Estimated cost, $7,500,000.

Mich., Bay City—Kelton Aurand Manufacturing Co. plans to build 56x240-ft. plant at Bay City.

Ill., Chicago—American Printing Ink Co. will build two-story addition to plant at 401 North Claremont St. Estimated cost, $15,000. S. S. Joy, Arch.

Ill., Chicago—Excelsior Steel Furnace Co. will build plants in Goose Island Section. Estimated cost, $200,000.

Ill., Chicago—General Chemical Co. will build one-story factory at 123rd St. and Carondelet Ave. Estimated cost, $15,000. W. G. Uffende, Arch.

Ill., Chicago—Robert Glendinning will build one-story warehouse at 2204 West 49th St. Estimated cost, $20,000. J. L. Carey, Arch.

Ill., Chicago—Gustav Kurger will build one-story garage at 6321 Broadway. Estimated cost, $17,500. G. T. Dippell, Arch.

Ill., Chicago—Morris & Co. will build two-story distillation plant at 4319 South Ashland Ave. Estimated cost, $32,000. F. A. Fielder, Arch.

Ill., Chicago—Rinzie Co. will build garage at 554 Diversey Blvd. Estimated cost, $35,000. J. Alschlager & Son, Arch.

Ill., Chicago—C. L. Searle, 215 West Ohio St., will build six-story chemical factory. Estimated cost, $80,000. C. Hengela, Arch.

Ill., Chicago—Sure Pure Ice Cream Co., 1800 Cornella Ave., will build one-story addition to factory. Estimated cost, $15,000. J. J. Kocher, Arch.

Ill., Lemont—Aluminum Products Co. will build 54x70-ft. steel factory. Estimated cost, $15,000.

Wis., Manitowoc—(Official)—Bids will be received about Dec. 15 for the general contract for five-story, 55x300-ft. factory for Aluminum Goods Manufacturing Co. Noted Nov. 11.

Wis., Milwaukee—Advance Engineering Co. will build one-story, 150x165-ft. machine shop on 13th St. Estimated cost, $25,000. Herbst & Hufschmidt, Arch.

Wis., Milwaukee—Milwaukee Auto Engine and Supply Co. will build two-story, 125x132-ft. factory on 29th St. Herbst & Hufschmidt, Milwaukee, Arch.

Iowa, Sioux City—Plans being prepared for five-story brick warehouse for William Tackaberry Co., 205 Pearl St. Estimated cost, $150,000. Beuttler & Arnold, Security Bank Bldg., Arch.

Ark., Argenta—McLean Hardwood Lumber Co., Memphis, Tenn., will build reinforced-concrete plant. Estimated cost, $80,000.

Ark., Little Rock—It is reported that the Arkadelphia Milling Co. will build a flour mill. Estimated cost, $250,000.

Tex., Corpus Christi—Corpus Christi Cold Storage Co. contemplates building a plant. Estimated cost, $50,000.

Tex., Dallas—Texas Portland Cement Co. will improve its plant at Dallas.

Tex., Onalaska—According to press reports the West Lumber Co. will rebuild saw mill recently destroyed by fire. Estimated cost, between $150,000 and $200,000.

Tex., Wichita Falls—Press reports state that Panhandle Refining Co. will build 2,000-bbl. refining plant and 4-in. pipe line to Burkburnett oil fields. Estimated cost, $200,000.

Colo., Denver—Denver Union Stock Yards Co. will build new buildings, improve existing buildings and build roofed arena. Estimated cost, $50,000.

Colo., Denver—Plans being prepared by H. A. Merrick, Chicago, Ill., for five-story, 120x120-ft. packing plant for Colorado Packing and Provision Co. Estimated cost, $200,000. Noted Nov. 4.

Colo., Penrose—It is reported that Beaver, Penrose & Northern Railway Co. will build shops and roundhouse. C. G. Whitlock, Engr.-in-charge.

Colo., Pueblo—Bids will be received about Dec. 1 for packing plant for Nuckolls Packing Co. Estimated cost, $250,000. Harvey Nuckolls, Pres. Noted Sept. 30.

Idaho, Nampa—Oregon Short Line R.R. plans to build roundhouse. Estimated cost, $25,000. Carl Stradley, Salt Lake City, Utah, Ch. Engr.

Wash., Seattle—American Nitrogen Products Co. contemplates building plant. Estimated cost, $50,000.

Wash., Tacoma—Oregon-Washington Railroad and Navigation Co. and Glacier Fish Co. will build plant. Estimated cost, $15,000.

Ore., Baker—Oregon Lumber Co. will install four dry kilns. Estimated cost, $15,000.

Calif., Los Angeles—Plans prepared by Albert C. Martin, Arch., Los Angeles, for seven-story, 100x115-ft. addition to furniture factory of Peck & Hills, Alpine and San Fernando St.

Ont., Toronto—Farmers Dairy Co. will build three-story reinforced-concrete building at Walmer Rd. and Bridgman St. Estimated cost, $50,000.

B. C., Alert Bay—British Columbia Packers' Association, Granville St., Vancouver, will build cannery at Alert Bay. Estimated cost, $20,000.

Bids In and Contracts Awarded

Vt., Quechee—Quechee Mills awarded contract to J. H. MENDELL CO., Manchester, N. H., for three-story, 75x98-ft. brick mill. Estimated cost, $25,000.

Mass., Framingham—Contract for preliminary work in connection with construction of factory for London Syndicate awarded to McNALLY BUILDING CO., Gardner.

Mass., Springfield—Willys-Overland Co. awarded contract to FRED T. LEY & CO. for four-story, 75x230-ft. reinforced-concrete garage.

R. I., Pawtucket—George A. Cummings awarded contract to DAVID W. LATMORE for two-story, 49x136-ft. brick laundry on Pawtucket Ave. Estimated cost, $25,000. Noted Oct. 28.

Conn., Meriden—New England Westinghouse Co. awarded contract to H. WALES LINES CO. for two one-story, 80x200-ft. and 80x100-ft. brick and steel factories.

Conn., New Haven—(Fair Haven)—National Folding Box Paper Co. awarded general contract for one-, two- and three-story, 222x350-ft. factory addition to C. W. MURDOCK. Noted Oct. 21.

N. Y., Buffalo—J. P. Devine Co. awarded general contract to JOHN W. COWPER CO., Fidelity Bldg., for two-story, 60x200-ft. addition to factory at Clinton St. and Erie R.R.

N. Y., Elmira—Morrow Manufacturing Co. awarded general contract to COMPTON REAL ESTATE CO. for one-story, 120x740-ft. tannery. Estimated cost, $100,000. Noted Nov. 18.

N. Y., Jamestown—Watson Manufacturing Co. awarded general contract for 60x120-ft. addition to JAMESTOWN CONSTRUCTION CO. Estimated cost, $20,000.

N. Y., Lincoln Park—General Railway Signal Co. awarded general contract to JOHN W. COWPER CO., Buffalo, for one-story, 120x140-ft. addition to plant. Estimated cost, $80,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—American Tobacco Co., 111 Fifth Ave., awarded contract for five-story, 200x300-ft. brick factory at Sanford St. and Nostrand Ave., to WELLS BROS., 366 Fifth Ave. Estimated cost, $750,000. Noted Nov. 4.

N. Y., New York—(Borough of Manhattan)—(Official)—Consolidated Gas Co., 4 Irving Pl., awarded contract to STANDARD CONCRETE STEEL CO., 413 East 31st St., for alterations to storage building at 438 West 18th St. Estimated cost, $20,000. Noted Oct. 28.

N. Y., New York—(Borough of Queens)—(Official)—American Druggists' Syndicate awarded contract to CRAMP & CO., 25 East 26th St., New York, for four-story, 175x175-ft. warehouse and factory at Borden and Van Alst Ave. Estimated cost, $125,000. Noted Sept. 30.

N. Y., Syracuse—Brown, Lipe & Chapin Co. awarded contract to W. J. BURNS CO. for six-story, 75x150-ft. addition at Marcellus, Seneca and West Fayette St. Estimated cost, $100,000.

N. Y., Utica—Utica Motor Car Co. awarded contract to R. RICHARDS & SONS for garage. Estimated cost, $20,000.

N. J., New Brunswick—(Official)—Howe Rubber Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., for three-story, 76x250-ft. reinforced-concrete factory at Fulton and Codwise Ave.

N. J., Perth Amboy—(Official)—United Lead Co. awarded contract for 62x62-ft. carpenter shop to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y.

Penn., Birdsboro—Birdsboro Steel Foundry and Machine Co. awarded contract for 60x240-ft. building to serve as roll foundry to L. H. FOCHT, Reading, Penn.

Penn., Philadelphia—Julius Gebaur awarded contract for one-story, 100x155-ft. woolen mill on Frankford St. to KIRBY BUILDING CO. Estimated cost, $18,000.

Penn., Philadelphia—Philadelphia Tapestry Mills awarded contract for five-story, 16x234-ft. reinforced-concrete building at Westmoreland and Masther St. to WILLIAM STEELE & SONS CO., Philadelphia, at $120,000. Noted Nov. 11.

Penn., Pottstown—(Official)—Bids have been received for three-story, brick and steel plant for National Rubber Co., Pottstown, Penn. Estimated cost, $100,000. M. N. Schoemaker, 512 Union Bldg., Newark, N. J., Arch.

La., New Orleans—(Official)—Warren Bros. Co., 59 Temple St., Boston, Mass., at $33,800 submitted lowest bid for asphalt plant at municipal repair plant. Noted Oct. 28.

Tenn., Nashville—Contract for reinforced-concrete garage at 1214 Broadway for C. M. Ferriss, Trustee, awarded to FOSTER & CREIGHTON CO. Estimated cost, $16,000.

Tenn., Nashville—Contract awarded to FOSTER & CREIGHTON CO. for reinforced-concrete garage for J. B. Palmer. Estimated cost, $75,000. Noted Nov. 18.

Ohio, Ashtabula—Cleveland Ford Tire Co. awarded contract for two-story, 73x150-ft. plant to E. J. INMAN. Estimated cost, $22,500.

Ohio, Cleveland—Contract for addition to plant of Brown Carriage and Auto Co., East 32nd and Superior St., awarded to SAMUEL AUSTIN & SONS CONSTRUCTION CO., 14230 Euclid Ave., Cleveland. Estimated cost, $10,000.

Ohio, Cleveland—Contract for factory at 2237 Chester Ave. for H. F. Neighbors, to be occupied by Willard Storage Battery Co., awarded to WILLIAM DUNBAR CO., 8209 Cedar Ave., Cleveland. Estimated cost, $15,000.

Ohio, Cleveland—Contract for factory at East 49th and Superior Ave. for Steel Socket Shaft End Co. awarded to GEORGE A. RUTHERFORD CO., 2160 East 18th St., Cleveland.

Ohio, Cleveland—E. T. Tinnerman Realty Co. awarded contract to SLATMYER & SONS CONSTRUCTION CO., 203 Lakeside Ave., Cleveland, for factory at 2868 Detroit Ave. Estimated cost, $25,000.

Ohio, Columbus—(Official)—Contract for two-story shop building for Ohio State University awarded to DAWSON CONSTRUCTION CO., Pittsburgh, at $85,000. Noted Oct. 28.

Ohio, Warren—Trumbull Steel Co. awarded contract for enlarging tinplate and sheet plant to RITER-CONLEY MANUFACTURING CO. Noted Oct. 21.

Ind., Gary—American Sheet and Tin Plate Co. awarded contract for grading and excavating for third unit of plant to A. F. HARTIGAN & CO., East Chicago, Ind. Noted Oct. 21.

Mich., Muskegon—Brunswick-Balke Collender Co. awarded contract to BUCK & MULLEN for three-story, 90x120-ft. addition to plant.

Ill., Chicago—J. J. Badenoch Co. awarded contract to SUMMER SOLLITT CO. for six-story warehouse at 1604 South Robey St. Estimated cost, $30,000.

Ill., Chicago—Contract awarded to UNION CONSTRUCTION CO. for six-story factory at 357 West Erie St. for J. A. Chapman and J. F. Stone. Estimated cost, $40,000.

Ill., Chicago—Contract awarded to J. W. SNYDER CO. for two-story machine shop at 3213 Shields Ave. for McDonald Machine Co. Estimated cost, $40,000.

Wis., Manitowoc—(Official)—Aluminum Goods Manufacturing Co. awarded contract for steel work on five-story factory to WORDEN-ALLEN CO., Milwaukee. Noted Nov. 11.

Wis., Milwaukee—Phoenix Printing Co., Chicago and Jackson St., awarded contract for excavation, mason and concrete work to PAUL RIESENS' SONS CO., electrical work to REUSS & BEYER ELECTRICAL CO. Noted Oct. 14.

Iowa, Cedar Rapids—General contract for one-story brick and stone garage for C. J. Novack, 1035 South Second St., awarded to LOOMIS BROS., Kimball Bldg. Estimated cost, $18,000.

Mo., Hannibal—Waters Pierce Oil Co. awarded general contract to L. M. HAGER for warehouse, tanks and office building, brick work and concrete foundation to G. W. WILLIAMS.

Mo., North Kansas City—General contract awarded to R. F. WILSON & CO., Chicago, Ill., for can factory at 14th and Campbell St. Estimated cost, $200,000.

Mo., St. Louis—Contract for two-story factory at 4200 Laclede St. for Luyties Pharmacy Co. awarded to GAMBLE CONSTRUCTION CO. Estimated cost, $29,000.

Colo., Trinidad—Swift & Co. awarded contract to J. E. TULLEY, 215 West Adams St., Pueblo, Colo., for storage house. Noted Sept. 16.

Calif., San Pedro—Merchants Realty and Investment Co., Van Nuys Bldg., at $117,138 submitted lowest bid for seven-story reinforced-concrete warehouse for Harbor Commissioners.

FEDERAL GOVERNMENT WORK

Proposed Work

Maine, Portland—Buoys—Bids will be received by Light House Inspector, Portland, until 2 p.m., Nov. 29, for furnishing 275 spruce spar buoys.

Conn., Seymour—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 28, for U. S. post office at Seymour.

Penn., Ridgway—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 30, for U. S. post office at Ridgway.

D. C., Washington—Building—Bids will be received at office of Commissioners of District of Columbia, Room 509, District Bldg., until 2 p.m., Nov. 30, for constructing an addition and altering Powell School Building No. 157.

D. C., Washington—Sewer Work—Bids will be received at office of Commissioners of District of Columbia, Room 509, District Bldg., until 2 p.m., Nov. 29, for sewer work in District of Columbia.

Va., Norfolk—Coal—Bids will be received at U. S. Engineer Office, Custom House, until noon, Dec. 20, for furnishing about 3,000 tons of bituminous coal. (See adv.)

Fla., St. Petersburg—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 30, for U. S. post office at St. Petersburg.

Tex., Galveston—Court House—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 30, for remodeling of U. S. courthouse at Galveston. (See adv.)

Calif., Ft Mason—Building—Bids will be received at Office of Constructing Quartermaster, Ft. Mason, until Nov. 24, for addition to nurses' dormitory, Letterman General Hospital.

Hawaii, Pearl Harbor—Marine Railway—Date for receiving bids for marine railway at naval station extended to Dec. 18. Noted Oct. 21.

Bids In and Contracts Awarded

N. Y., Salamanca—Post Office—Bids were received Nov. 12 for U. S. post office at Salamanca (a) limestone, (b) sandstone, as follows: Durolithic Co., Buffalo, (a) $54,180, (b) $54,600; Westchester Engineering Co., White Plains, (a) $56,756, (b) $58,800; King Lumber Co., Charlottesville, Va., (a) $58,000, (b) $59,000. Noted Oct. 7.

Md., Indian Head—Building—Contract for magazine building at naval proving ground, Indian Head, awarded to J. L. ROBINSON CONSTRUCTION CO., at $7,015. Noted Nov. 4.

D. C., Washington—Engine House—Contract for constructing Engine House No. 28 awarded to JAMES L. MARSHALL, Washington, D. C., at $22,300. Noted Oct. 21.

D. C., Washington—Power Plant—Bids were received Nov. 17 for central heating and power Section A, construction of buildings; B, turbo-alternators, turbo exciters, etc.; C, condensing equipment; D, boilers; E, mechanical stokers; F, pumps; G, piping; H, feed water heaters; I, cables and transformers for power house; J, electric crane; K, coal and ash handling machinery; L, lead covered cables; M, substation, switching gear and wiring; N, substation converters and transformers; O, construction of pipe tunnels; P, pipe connections at substations; Q, changes and alterations, as follows: Section A to Q, George T. Kelley, Yonkers, N. Y., $1,788,000; W. G. Cornell Co., Washington, $1,698,500; P. J. Carlin Construction Co., New York, N. Y., $2,160,000, alterations, $2,090,000; section B, I. M. N., Hanley-Casey Co., $289,000; Westinghouse Electric and Mfg. Co., $282,911; William Dall, $289,000. Noted Sept. 2.

D. C., Washington—Pumping Unit—Contract for one steam turbine driven centrifugal pumping unit awarded to DE LAVAL STEAM TURBINE CO., Trenton, N. J., at $15,633. Noted Sept. 23 and Oct. 21.

D. C., Washington—Sewers—Contract for 18th St. and Connecticut Ave. sewers awarded to WARREN F. BRENIZER CO., Washington; Benning Rd. sewer main to GEORGE HYMAN, Washington. Noted Oct. 21.

W. Va., Huntington—Post Office—Bids were received Sept. 16 for U. S. post office at Huntington as follows: King Lumber Co., Charlottesville, Va., $121,800; Norcross Bros. Co., Worcester, Mass., $123,790; Boyle-Robertson Construction Co., Washington, D. C., $124,975. Noted Oct. 14.

S. C., Charleston—Cranes—Bids were received Nov. 20 for furnishing two jib cranes for shipbuilding ways at Charleston as follows: Heyle & Paterson, Inc., Pittsburgh, Penn., $24,200; McMyler Interstate Co., Bedford, Ohio, $23,490; Terry & Tench, New York, N. Y., $25,230. Noted Oct. 14.

Ohio, Elyria—Post Office—Bids were received Nov. 19 for U. S. post office at Elyria, (a) limestone, (b) sandstone, as follows: John G. Unkefer & Co., Minerva, (a) $75,231, (b) $78,481; Charles W. Gindele & Co., Chicago, Ill., (a) $78,400, (b) $82,400; William H. Fissell & Co., New York, N. Y., (a) $79,800, (b) $81,900. Noted Oct. 14.

Idaho, Boise—Post Office—Bids were received Nov. 18 for addition to U. S. post office at Boise as follows: Welch Bros. & Hannaman, Gridley, Calif., $41,874; R. E. Campbell, Salt Lake City, Utah, $44,687; Frank M. Weakley, Portsmouth, Va., $45,333. Noted Oct. 14.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., New York—(Borough of Manhattan)—Drainage—State Board of Health estimates cost of draining all swamp land in New York City, 38,500 acres, to exterminate mosquitoes, at $385,000.

Ill., Chicago—Waterway—The waterway project which is planned to connect Chicago with Mississippi River will be under the supervision of the state and not the city as was mentioned in the issue of Nov. 11.

Iowa, Mason City—Ditch—Bids will be received until Dec. 6 by County Auditor for County Ditch No. 29.

Minn., Redwood Falls—Ditch—Contracts for County Ditch No. 27 will be awarded Dec. 1, by County Auditor.

Kan., Topeka—(Official)—Drainage—We have been advised that the surveys which are being made of North Topeka Drainage District are for record in case of flood. No contract contemplated now. Noted Nov. 11.

Neb., Bayard—Irrigation—Bids will be received until 1:30 p.m., Dec. 7, by Catherine Roberts, Secy. Short Line Irrigation District, for purchase of $15,582 bonds for irrigation.

Neb., Tekamah—(Official)—Drainage—Bids will be received until noon, Dec. 18, for three concrete culverts for Burt-Washington drainage district near Tekamah, Towl Engineering Co., 1122 City National Bank Bldg., Omaha, Engr.

Ark., Marion—(Official)—Ditches—Bids will be received until Dec. 10 by Board of Commissioners of Drainage District No. 7, Crittenden County, for 44 miles of ditches requiring about 1,800,000 cu.yd. excavation. Morgan Engineering Co., Memphis, Tenn., Engr.

Tex., Anahuac—Irrigation Improvements—Election will soon be held by Trinity River Irrigation District to vote on $30,000 bonds for repairing bulkhead across Turtle Bay.

Tex., Corpus Christi—Reclamation—Nueces County Commissioners sold $157,000 bonds for reclamation of 80,000 acres. Bids will soon be received.

Tex., Laredo—Irrigation—Max Deutz will install irrigation pumping plant.

Tex., Leon Springs—Irrigation—Leon Springs Irrigation Co. plans to build reservoir and install pumping plant to irrigate 3,017 acres in Leon Springs Valley.

Tex., Marfa—Irrigation—White Elephant Irrigation Co. plans to build water storage reservoir of 5,333,660 cu.ft. and install pumping plant for irrigating 200 acres of land.

Okla., Bartlesville—Ditch—Citizens of Washington County contemplate building drainage ditch along Caney River. Estimated cost, $200,000. A. M. Wheeler, Chn. of Comr.

Colo., Grand Junction—Irrigation—Press Reports state that Redlands Irrigation Co. will extend irrigation system. Estimated cost, $200,000. L. Bartlett, Denver, Mgr.

N. M., Ft. Sumner—Irrigation—M. Fishback and Smith Bros. will build dam for local irrigation project. Estimated cost, $80,000.

Wash., North Yakima—Canal—Selah Maxee Canal Co. will improve 3,000 ft. of its canal. Estimated cost, $10,000.

Wash., Tacoma—Dredging—Oregon-Washington R.R. and Navigation Co. and Glacier Fish Co. will dredge channel in middle waterway. Estimated cost, $125,000.

Ore., Salem—Irrigation—B. Lewis, State Engr., approved application of Wesley B. Sherman, Grants Pass, for irrigation project on Graves Creek to irrigate 20,000 acres. Estimated cost, $1,000,000.

Ore., Salem—Reclamation—Surveys completed by Guy Hart, Drainage Engr. of U. S. Dept. of Agriculture, for reclamation of 75 miles on French Prairie Drainage District from Lake Labish on south to Woodburn and West Woodburn on north. Noted Nov. 4 and 11.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Brooklyn)—(Official)—Dredging—Bids have been received from H. G. Packard Co., 133 Greenwick St., at $0.89 per cu.yd., and Wilfred E. Potter, $0.94½ per cu.yd. for dredging Gowanus Canal from its Head to Hamilton Ave., 6000 cu.yd.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Contract awarded to MORRIS & CUMMINGS DREDGING CO., at $0.12½ per cu.yd., for dredging in Borough of Manhattan under Contract No. 1482. Noted Nov. 18.

Mich., St. Johns—Drainage—Louis S. Green, County Drainage Com., awarded contract to WOOLMAN CONSTRUCTION CO., Sandusky, for Cox Drain in Essex Township.

Ill., Chicago—Drainage—Drainage Board awarded contract to A. GUTHRIE & CO., St. Paul, Minn., at $1,600,000 for two miles of Chicago Drainage Canal. Noted Nov. 11.

Iowa, Clarinda—Ditch—Contract for ditch in Nodaway Drainage District, Taylor County, awarded to O. P. HERRICK. Estimated cost, $15,500.

Iowa, Mason City—Drainage—Contract for drainage project awarded to WALTER H. ANDERSON.

Iowa, Sioux City—Ditch—Contract for Upper Wolf Creek Ditch, 154,000 yd. excavation, awarded to MURPHY & HUPP, Hornick, Iowa, at $0.08½ per cu.yd.

Minn., Marshall—Ditches—County Commissioners awarded contracts for County Ditches No. 17, 18 and 19 to TRACY CEMENT CO., Tracy, $7,100 A. HENRIKSEN, Askov, $16,400, MARSHALL TILE AND SIDEWALK CO., Marshall, $10,254, respectively.

Ark., Knobel—(Official)—Ditch—Northern Construction Co., Elkhart, Ind., submitted lowest bid for 52.75 miles of ditches and 3.25 miles of levees.

Idaho, St. Maries—Drainage—Contract for four-mile dyke from Hell's Gulch to Chatcolet, Idaho, and for reclaiming and draining 1,000 acres awarded to CARSCALLEN BROS., Coeur d'Alena, Idaho. Estimated cost, $17,000.

MISCELLANEOUS

Proposed Work

Maine, Lewiston—Fire Alarm System—City Board of Fire Commissioners contemplates installing automatic fire alarm system.

Mass., Brookhaven—Race Track—Citizens contemplate building racetrack and grandstand. J. S. Kimberlin, Jackson, Miss., interested.

N. Y., New York—(Borough of Manhattan)—(Official)—Frogs and Switches—Bids will be received until 12:15 p.m., Dec. 7, by Public Service Commission of First District for supply of special work, Order No. 6, for use in construction of rapid transit railroads, frogs and switches for Lexington Ave. line.

N. Y., New York—(Borough of Manhattan)—(Official)—Station—Public Service Commission of First District ordered Interborough Rapid Transit Co. to build and maintain new local station on Sixth and Ninth Ave. Elevated lines in neighborhood of 150th St.

N. J., Atlantic City—Speedway—City Commissioners approved projected Absecom-Atlantic City Speedway, four miles long. Estimated cost, $250,000. State will pay $80,000 of cost.

Penn., Philadelphia—Pier Superstructure—Plans and specifications for the proposed McKean St. pier superstructures, bids for which are to be received until noon, Dec. 6, are on file at our New York office. (See adv. in issues of Nov. 11 and 18.)

Fla., Lakeland—Addition to Fire System—See item under "Water-Works."

Tenn., Memphis—Dock—Standard Oil Co. contemplates building dock at West Memphis.

Ohio, Akron—Elimination of Grade Crossing—Plans prepared for elimination of grade crossing at Forst St. City portion of cost, $25,000; railroad's, $75,000.

Ohio, Cleveland—Pier—Bids will be received until noon, Dec. 2, by Commissioner of Purchase and Supplies, City Hall, for repair to pier protections.

Ohio, Cleveland—Subway—City of Cleveland and Cuyahoga County Commissioners plan to build subway from New High Level Bridge to Public Square. Estimated cost, $3,000,000. Noted Aug. 19.

Ohio, Cleveland—Grading Subway—Bids will be received until noon, Dec. 2, by Commissioner of Purchase and Supplies, City Hall, for grading subway at Hamilton Ave. and Pennsylvania R. R.

Ohio, Cleveland—Ore Docks—Erie R.R. Co. will improve ore docks on Cuyahoga River. Estimated cost, $200,000. Robert S. Parsons, Gen. Mgr.

Ohio, Tiffin—Retaining Wall—City Council approved $40,000 bond issue for retaining wall and widening Sandusky River.

Ill., Quincy—River Terminals—City Council and Chamber of Commerce plan to build river terminals. Estimated cost, $100,000.

Mo., Kansas City—Elimination of Grade Crossing—Kansas City Terminal Co. making plans to eliminate grade crossings at Holmer St., Chestnut Ave., Van Brunt Blvd., 15th St., Adams St. and Indiana Ave. Estimated cost, $600,000. H. H. Adams, Pres.

Mo., Kansas City—Speedway—Citizens contemplate building motor speedway. Estimated cost, $500,000. Darius A. Brown, 515 Commerce Bldg., interested.

Mo., St. Louis—Dock—Board of Public Service contemplates building municipal dock at foot of North Market St. Estimated cost, $285,000. Noted Sept. 22.

Mo., St. Louis—Levee—Upper Mississippi Levee and Drainage Association petitioned Congress to appropriate $4,000,000 for completing levee system from Cairo, Ill., to Rock Island, Ill.

Tex., Marshall—Elimination of Grade Crossing—Election will be held Dec. 4 to vote on $50,000 bonds for elimination of grade crossing over tracks of Texas & Pacific Railway. T. E. Hilliard, City Engr.

Utah, Salt Lake City—Bath House—Plans prepared by Niels P. Larsen, Arch., for bath house at Warm Springs. Estimated cost, $250,000. Noted Nov. 18.

Wash., Seattle—Amphitheater—University of Washington contemplates building concrete amphitheater on campus. Estimated cost, $50,000. H. Suzzalo, Pres.

Wash., Seattle—Seawall—Bids will be received until 10 a.m., Dec. 10, by L. B. Young, Chn., Bd. of Pub. Ser., for concrete seawall, reconstructing sewers and water mains, and paving. Estimated cost, $100,000.

Wash., Seattle—Steamer—Port of Seattle Commission concontemplates building ferry steamer for service on Elliott Bay. Estimated cost, $30,000. J. R. West, Ch. Engr.

Wash., Seattle—Tunnel—County Commissioners of King County will build tunnel entrance to new courthouse and city hall. Estimated cost, $15,000.

Ore., Portland—Sprinkler Systems—Bids will be received until 4 p.m., Dec. 2, by R. H. Thomas, School Clk., for installing antomatic sprinkler systems and fireproofing various school buildings.

Calif., San Francisco—Dry Dock—Union Iron Works will remodel foundry, install floating dry dock and extend slip. Estimated cost, $1,000,000. John A. McGregor, Pres.

Calif., Whittier—Mausoleum—Whittier Heights Cemetery Association will build mausoleum. Estimated cost, $50,000. J. J. Frauenfelder, Story Bldg., Los Angeles, Arch.

Ont., Ft. William—Coal Docks—Ft. William Coal Docks Co. will build addition to plant on Mission River. Estimated cost, $200,000.

B. C., Barnet—Oil Tanks and Docks—Shell Oil Co. will build five steel oil tanks and dock. Estimated cost, $50,000 and $7,000, respectively.

Bids In and Contracts Awarded

N. H., North Walpole—(Bellows Falls, Vt., post office)—Coal Pocket—Boston & Maine R.R. awarded contract for coal pocket to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Mass., Boston—(Official)—Tunnel—Contract for section of tunnel under Dorchester Ave. from West Fourth St. to Old Colony Ave. awarded to COLEMAN BROS., Boston, at $382,364. Noted Nov. 18.

Mass., Winthrop—Seawall—Contract for seawall awarded to W. L. MILLER CO., 171 Alford St., Charleston, at $19,030. Noted Oct. 28 and Nov. 18.

N. Y., New York—(Borough of Bronx)—(Official)—Elevated Lines—Bids were received Nov. 15 for (a) Section 6-d, West Farms Subway; (b) Section 9-B, Webster Ave. line; (c) Section 10-C, Eighth Ave. and 162nd St. connection; (d) totals, as follows: Hyde, McFarlin & Burke, (a) $123,667; (b) $1,014,125, (c) $565,439, (d) $1,703,231; Fred L. Cranford, Inc. (a) $131,312, (b) $950,487, (c) $512,215, (d) $1,594,015; Terry & Tench, Inc., and T. A. Gillespie Co., (a) $129,135, (b) $914,997, (c) $511,931, (d) $1,556,063; Snare & Triest Co., (a) $136,770, (b) $926755, (c) $543,291, (d) $1,606,816; William Bradley, (a) $124,202, (b) $906,035, (c) $498,947, (d) $1,529,184.

N. Y., New York—(Borough of Queens—(Official)—Tracks—Public Service Commission awarded contract for installation of tracks for portion of Steinway Tunnel Rapid Transit R.R. to THOMAS CRIMMONS CONTRACTING CO., at $204,898. Noted Nov. 4 and 18.

N. J., Jersey City—Police Flashlight Signal System—City Commission awarded contract to GAMEWELL FIRE ALARM CO. for police flashlight signal system. Estimated cost, $10,000.

Penn., Philadelphia—Coal Pockets—C. P. Bowers, Reading, at $65,899, and McNichol Paving and Contracting Co., Philadelphia, at $74,360, submitted lowest bids for coal pockets on Emerald St. for Philadelphia & Reading Railway Co. Samuel T. Wagner, Ch. Engr.

Penn., Pittsburgh—(Official)—Underground Comfort Station)—Lowest bid received for underground comfort station at Penn. Ave. and Butler St. was that of H. L. Kreusler, 3301 Penn. Ave., Pittsburgh, at $10,130.

Fla., Jacksonville—Docks—Merchants & Miners Transportation Co. awarded contract to HILLYER & SPEARING CO., Jacksonville, for dock improvements. Estimated cost, $75,000.

Ohio, Columbus—Monument—Contract for soldiers monument awarded to P. E. BONNEL & CO., Cleveland, at $17,500.

Ohio, Portsmouth—Flood Protection Wall—Glandorf & Browning, Cincinnati, at $67,779, submitted lowest bid for second section of flood protection wall. Noted Nov. 11.

Ill., Freeport—Excavation for Lakes—Contract for excavation for three lakes at Taylor's Park awarded to GUNDGRAHAM CO., at $10,220.

Wis., Baraboo—Mausoleum—A. Ringling awarded contract for Ringling family mausoleum in Baraboo Cemetery to S. A. COLLINS CO., Reedsburg, Wis. Estimated cost, $25,000.

Calif., San Francisco—(Official)—Esplanade—Contract for Section A of esplanade and seawall recently awarded to C. E. Lamburth has been rescinded and reawarded to J. D. HANNAH, Monadnock Bldg., San Francisco, at $59,975. Noted Nov. 11.

Calif., San Francisco—Pier Repair—State Board of Harbor Commissioners awarded contract to HEALY-TIBBITTS CONSTRUCTION CO., at $63,616, for repairing Pier No. 9.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Maine, Augusta—Bids will be received until Dec. 1 by T. G. O'Connell, Arch., 18 Boylston St., Boston, Mass., for church for St. Augustines Congregation. Estimated cost, $80,000.

N. H., Manchester—Bids will be received until Dec. 1 by City Clerk for isolation hospital at Derryfield Park. Estimated cost, $75,000. W. E. Provost, 581 Main St., Arch.

Mass., Boston—Plans being prepared by A. H. Bowditch, 44 Bromfield St., for automobile sales building at 655 Beacon St. for Albert Geiger, Jr., 87 Milk St.

Mass., Boston—Plans prepared by Kendall, Taylor & Co., Arch., 93 Federal St., for five-story school and dormitory for Gordon Bible Institute, 7 Montgomery St. Estimated cost, $60,000.

Mass., Boston—Plans being prepared by S. S. Eisenberg, Arch., 5 Everett Ave., Chelsea, for six-story business block for A. Bevilacquac, 91 Prince St. Estimated cost, $100,000.

Mass., Fall River—All bids received for remodeling City Home rejected. New bids will be received. Estimated cost, $90,000. Noted Nov. 4.

Mass., Norwood—Citizens of Norfolk County voted $75,000 bonds for agricultural school.

Conn., Hartford—Plans prepared for parish house for Christ Episcopal Church as memorial to James J. Goodwin. Estimated cost, $50,000. James Goodwin, Pastor.

Conn., Milford—Election will be held to vote on $150,000 bonds for town hall.

N. Y., Corning—New freight house contemplated by Delaware, Lackawanna & Western R.R. Co. Estimated cost, $55,000.

N. Y., New York—(Borough of Manhattan)—Contract for temple for Mount Neboh Congregational at 159th St., near Broadway will be awarded about Dec. 1. Noted Sept. 30.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will soon be received for five-story, 40x100-ft. brick and steel studio building at 163 West 57th St., for L. H. Chalif, 7 West 42d St. Estimated cost, $125,000.

N. Y., Rochester—Board of Trustees approved plans for proposed Chamber of Commerce Bldg. at Mortimer and St. Paul St.

N. J., Hackensack—Citizens of Teaneck voted to issue $40,000 bonds for school.

N. J., Jersey City—Contract will soon be awarded for addition to City Hospital. Estimated cost, $350,000. Noted Nov. 18.

N. J., Jersey City—City Commission is considering plans for constructing following schools: Addition to Lincoln High School and School No. 11 new high school in Hudson City District and new school in Greenville section.

N. J., Newark—Board of Freeholders contemplates $300,000 bond issue for additional buildings at Soho Isolation Hospital.

N. J., Newark—Board of Freeholders contemplates eight-story county office building at High St. and Springfield Ave. Estimated cost, $800,000.

N. J., Newark—Council authorized bond issue of $45,000 for building laboratory and morgue at City Hospital.

N. J., Roselle Park—(Elizabeth post office)—(Official)—Contract will soon be awarded for three-story high school. Estimated cost, $60,000.

Penn., Hazleton—(West Hazleton)—Bonds for $140,000 for new schools voted by citizens. Noted Oct. 28.

Penn., Lawrenceville—(Official)—Board of Education plans to build a two-story school. John N. Hotchkiss, Secy.

Penn., Lehighton—School Board contemplates new high school. Estimated cost, $100,000.

Penn., Marcus Hook—City contemplates building school. Estimated cost, $89,000.

Penn., Philadelphia—County Commissioners will expend about $50,000 for enlarging and improving Magdalen Home at 21st and Race St., and $40,000 on old Vaux School at 12th and Wood St.

Penn., Philadelphia—Revised plans prepared for Municipal Art Museum at Green St. entrance to Fairmount Park. Estimated cost, $4,500,000. E. K. Price, Chn. of Museum Com.

Penn., Philadelphia—Plans prepared for four-story, 250x400-ft. loft building at 23rd and Market St. for Kahn & Greenberg.

Penn., Slatington—School Board will award contract in spring for two-story, 95x135-ft. school building. Estimated cost, $60,000.

Penn., South Mountain—Plans being prepared by A. A. Ritcher, Arch., Sixth and Court St., Reading, Penn., for two-story reinforced-concrete building for Asylum for Chronic Insane.

Del., Wilmington—Grand Lodge of Delaware, Independent Order of Odd Fellows, contemplate building home for aged.

Md., Baltimore—Board of Estimates contemplates, issuing $1,500,000 bonds for additional schools.

D. C., Washington—William Corcoran Eustis plans to build a hotel at 15th St. and Pennsylvania Ave. at an estimated cost of several million dollars.

Va., Norfolk—Plans prepared for four-story building for Brambleton Lodge No. 56, Knights of Pythias. Estimated cost, $75,000.

Va., Richmond—State Capitol Building Commission plans new Capitol Building. Estimated cost between $200,000 and $250,000.

W. Va., Charleston—F. L. Whitney and W. S. Mason are negotiating for an estate on which to build a modern theater and concert hall.

W. Va., Wheeling—(Official)—Bids will be received some time next spring for theater and assembly hall for Royal Southern Amusement Co. Estimated cost, $50,000. Noted Nov. 11.

N. C., Asheville—Citizens voted $250,000 bonds for constructing schools. Noted Aug. 26.

N. C., Dobson—Commissioners of Surry County contemplate new courthouse. Estimated cost, $60,000.

N. C., Gastonia—Plans being considered by First National Bank for new building. Estimated cost, $100,000. L. L. Jenkins, Asheville, Pres.

S. C., Greenville—Bids will be received by A. G. Furman, Chn. of Court House Comrs., until Jan. 4, for courthouse. P. T. Mayre, Candler Bldg., Atlanta, Ga. Arch., and H. O. Jones, Skelton Bldg., Greenville, Superv. Arch.

Fla., Titusville—Bids will be received until noon, Dec. 7, by Edward E. Macy, Supt. Pub. Instruction, for school.

Ala., Birmingham—Miller & Martin, Arch., Title Guarantee Bldg., prepared plans for five-story, 100x140-ft. building at Second Ave. and 19th St. for Louis Saks Clothing Co., 1900 First Ave.

Tenn., Knoxville—(Official)—We have been advised that the Board of Commerce does not contemplate building to be known as Tennessee Vocational Reformatory for Girls as stated in our issue of Nov. 11. Noted Nov. 11.

Tenn., Nashville—Plans being prepared by Ludlow & Peabody, Arch., 101 Park Ave., New York, N. Y., to remodel building at Fourth Ave. and Union St. for bank and office buillding for Fourth and First National Bank. Estimated cost, $125,000.

Ky., Covington—Citizens voted $150,000 bonds for high school. Noted Oct. 14.

Ohio, Akron—Citizens of Richfield Township voted to issue $40,000 bonds for central school.

Ohio, Alliance—Citizens voted $100,000 bonds for improving a number of schools.

Ohio, Ashtabula—Citizens voted $40,000 bonds for schools.

Ohio, Canton—Bids will be received next spring for a two-story addition to Woodland School. Estimated cost, $60,000. W. C. Lane, Clk., Bd. of Education.

Ohio, Cincinnati—Bids will soon be received by E. H. Dornette, Arch., for four-story, 35x80-ft. hospital for German Deaconess Hospital Association. Estimated cost, $40,000. Noted Nov. 18.

Ohio, Cincinnati—A six-story building 40x90-ft. will be erected on Fourth St. west of Elm St. Estimated cost, $40,000.

Ohio, Cleveland—Plans will be prepared by Maurer & Mills, Arch., 1335 Scofield Bldg., for new building for Glenville M. E. Church. Estimated cost, $40,000.

Ohio, Columbus—Bids will be received about Dec. 1 for recreation building at Schiller Park for city. Estimated cost, $40,000. Ray Sims, c/o Ohio State University, Arch. Noted Nov. 18.

Ohio, Dayton—Citizens of Oakwood Township have authorized $50,000 bond issue for school improvements.

Ohio, Eaton—Citizens voted $250,000 bonds for three-story court house. Thies & Thies, Arch., Dayton. Noted Sept. 16.

Ohio, Fremont—(Official)—Bids will be received some time next year for church, Sunday school building and parish house for Grace Lutheran Church. Estimated cost, $100,000. W. E. Tressell, Pastor.

Ohio, Galion—Bonds for $40,000 voted for Children's Home in Crawford County.

Ohio, McCutchenville—Bonds for $40,000 voted by citizens for new school.

Ohio, Marion—J. E. Albert, Cleveland, is interested in the organization of a company for the purpose of building a hospital. Estimated cost, $60,000.

Ohio, Springfield—Plans being prepared by R. F. Gable, Arch., Springfield, for church on Fair St. for Phillips Chapel.

Ohio, Steubenville—J. H. Andrews, New Cumberland, W. Va., is interested in a project to raise $100,000 to finish and equip the Ohio Valley Hospital.

Ohio, Tiltonsville—Bonds for $45,000 voted by citizens for new school.

Ohio, Uhrichsville—Citizens voted $45,000 bonds for new school on Trenton Ave. Noted Nov. 11.

Ohio, Wadsworth—Plans prepared for church for Lutheran congregation. Estimated cost, $60,000.

Ohio, Wapakoneta—Plans being prepared by Roy F. Gable, Arch., Springfield, for church for Presbyterian congregation.

Ohio, West Richfield—Citizens of Richfield Township voted $40,000 bonds for central school on site between East and West Richfield.

Ohio, Youngstown—Citizens of Howland Township voted $40,000 bonds for schools.

Ind., Evansville—Red Men contemplate constructing eight or nine-story building. Estimated cost, $75,000.

Ind., Hammond—Contract will soon be awarded for two-story, 85x183-ft. building for Harry Kavanaugh. A. A. Schwartz, 6 North Clark St., Chicago, Ill., Arch. Noted Nov. 18.

Ind., Indianapolis—Strand Theater Co., 332 South Michigan Ave., Chicago, Ill., leased Lyceum Theater at Indianapolis and will remodel and reconstruct same. Estimated cost, $50,000.

Mich., Detroit—Contract will soon be awarded for building theater, store and office building on Grayiot Ave. for Boulevard Theater Co. C. Howard Crane, 2323 Dime Bank Bldg., Arch.

Mich., Grand Rapids—Contract will soon be awarded for three-story, 125x150-ft. church for Wealthy Street Baptist congregation. Estimated cost, $75,000.

Ill., Chicago—Y. W. C. A. plans to build a new building at Ashland Ave. and Monroe St. Estimated cost, $65,000.

Ill., Freeport—State Bank of Freeport plans to build six-story bank and office building.

Ill., Homer—Township School Trustees contemplate high school. Estimated cost, $40,000.

Ill., Joliet—Plans prepared by H. E. Hewitt, Peoria, for Eastern Ave. school. Estimated cost, $40,000.

Ill., Peoria—Peoria Labor Temple Association, recently incorporated, plans to build a temple for labor organizations of city. Estimated cost, $50,000.

Ill., Sidney—Construction of high school contemplated by Township Board of Education. Estimated cost, $40,000.

Wis., Madison—Students of University of Wisconsin contemplate using endowment of about $350,000 of J. Stephens Tripp of Prairie du Sac for clubhouse.

Iowa, Des Moines—Scottish Rite Masons will build 132x180-ft. cathedral at 14th and West Hight St. Estimated cost, $300,000. William Koch, Pres. Bldg. Com., 2809 Cottage Ave.

Iowa, Des Moines—Valley National Bank contemplates building 15-story office building at Fourth and Walnut St.

Iowa, Washington—Construction of new building contemplated by Washington Telephone Co. Estimated cost, $50,000

Iowa, Waterloo—Election will be held Dec. 12 to vote on $250,000 bonds for high school building for Board of Education of District of East Waterloo.

Minn., Albert Lea—Plans being prepared for six-story hotel for Commercial Club.

Minn., Duluth—Plans being prepared by Kelly & Williams, Arch., Duluth, for three-story, 160x200-ft. high school building. Estimated cost, $105,000.

Minn., Hibbing—John A. Healy, owner of Hibbing Hotel, recently destroyed by fire, will organize a company for purpose of building hotel. Estimated cost, $100,000.

Minn., Hibbing—City will build court house. Estimated cost, $100,000.

Minn., Northfield—Trustees of Carlton College plan to build mens dormitory. Estimated cost, $110,000.

Minn., Northfield—Plans being prepared for chemistry building at Northfield. Estimated cost, $80,000.

Minn., St. Paul—Plans being prepared by F. H. Ellerbe, Endicott Bldg., St. Paul, for three hospitals.

Kan., Neodesha—Plans being prepared for two-story, 426x526-ft. office building for Standard Oil Co. C. A. Henderson, Coffeyville, Arch.

Kan., Topeka—R. Marks, Des Moines, Iowa, plans to build department store building at Eighth and Kansas Ave.

Neb., David City—Bonds for $60,000 voted for high school.

S. D., Mitchell—Plans being prepared for building for Mitchell Trust Co. Estimated cost, $65,000. M. F. Patton, interested.

S. D., Webster—Plans being prepared by Holmes & Flinn, Arch., 8 South Dearborn St., Chicago, Ill., for high school. Estimated cost, $60,000.

Mont., Butte—A three-story business building will be constructed by B. K. Wheeler, U. S. District Attorney. Estimated cost, $50,000.

Mo., St. Louis—An addition of five stories will be built to the Shubert Theatre at 12th and Locust St. Estimated cost, $250,000.

Mo., Springfield—Y. W. C. A. will build three-story, brick building. Estimated cost, $75,000. Harry Cooper, 297 East Water St., Chn. Bldg. Com.

Tex., Austin—Plans for new hospital at Agricultural and Mechanical College have been submitted to State Inspector of Masonry. Estimated cost, $50,000.

Tex., Brownsville—Election will be held Dec. 11 to vote on $100,000 bonds for purchasing site and building high and ward schools for Brownsville Industrial School District.

Tex., El Paso—Plans being prepared by Trost & Trost, Arch., Mills Bldg., for new temple at Montana and Oregon St. to be known as Temple Mt. Sinai. Estimated cost, $50,000.

Tex., El Paso—Plans being prepared by Trost & Trost, Mills Bldg., for addition to Everybody's Dry Goods Store, Inc. Estimated cost, $100,000.

Tex., Port Arthur—Plans prepared by W. R. Burk, Arch., New Orleans, La., for five-story, brick and concrete store and office building for A. G. Wutky.

Okla., Oklahoma—Bids will be received by M. Cornelius, Clk., Bd. of Oklahoma County Commissioners, until 10 a.m., Dec. 6, for school.

Okla., Tulsa—Kinney, Kingsbury & Tingley, 415 First National Bank Bldg., contemplates building eight-story, 50x100-ft. reinforced-concrete building. Estimated cost, $125,000.

Colo., Denver—Press reports state that Loyal Order of Moose will build sanitarium near Denver. Estimated cost, $2,000,000.

Colo., Denver—School Board has acquired a site at 29th and Dexter St. on which it plans to build the proposed Park Hill school.

Colo., Swink—City purchased site and will build city hall. Estimated cost, $40,000.

Ariz., Solomonville—Bids will be received until 2 p.m., Dec. 6, by Supervisors of Graham County for two-story court house and jail. Estimated cost, $44,000. B. Blake, Clk.

Wash., Seattle—Bids will be received by Board of Seattle Commissioners until Dec. 8 for superstructure of Spokane Ave. freight shed. Estimated cost, $60,000.

Calif., Palo Alto—Joseph Larkin plans to build a hotel at an estimated cost of $80,000.

Calif., Redding—Plans prepared for school at Pine and Larkin St. Estimated cost, $82,000.

Calif., Santa Barbara—Plans being prepared for two-story, 125x125-ft. Carnegie Library building. Estimated cost, $50,000. Francis W. Wilson, Arch., Santa Barbara.

Ont., Ingersoll—Election will soon be held to vote on $70,000 bonds for school. W. R. Smith, Clk.

Ont., Sarnia—Plans being prepared for school for Middle Ward. Estimated cost, $50,000.

Ont., Toronto—Sons of Canada contemplate building club house. Estimated cost, $50,000.

Bids In and Contracts Awarded

Mass., Agawam—All bids received Nov. 15 for brick training school rejected as too high. Estimated cost, $100,000. Noted Oct. 21.

Mass., Boston—(Roxbury)—Contract for addition to High School of Practical Arts, Greenville and Winthrop St. awarded to J. J. FLYNN, 319 Washington St., Boston, at $56,756. Noted Nov. 18.

Mass., Danvers—Lowest bids received Nov. 5 for brick building for Independent Agricultural School were as follows: L. A. McAllon, North Andover, $64,400; John A. Driscoll, North Andover, $69,450. Noted Oct. 28.

Mass., North Adams—All bids received Nov. 17 by E. C. and G. C. Gardner, Arch., Springfield, Mass., for three-story, 100x270-ft. brick high school rejected as being too high. Estimated cost, $125,000. Noted Nov. 11.

Mass., Springfield—Contract for church at State and Orleans St. for Christ Scientist Church awarded to FRED T. LEY & CO. Estimated cost, $100,000.

R. I., Providence—Contract for church for St. Charles Barromeo Church awarded to P. J. TRETTIER, East Providence. Estimated cost, $60,000.

N. J., Elizabeth—Contract for El Mora School awarded to P. B. POLHEMUS, Roselle, N. J. Estimated cost, $60,000. Noted Nov. 11.

N. J., Jersey City—Contract for new home for Sisters of Charity of Providence to be known as St. Ann's Home for Aged awarded to D. W. McGEE CONSTRUCTION CO., INC., at $94,065.

Penn., Philadelphia—Contract for 15-story office building at 16th and Walnut St. awarded to STACEY, REEVES & SONS. Estimated cost, $400,000.

Penn., Philadelphia—Contract for two-story, 62x120-ft. parochial school and chapel at 62d and Cedar St. for St. Carthage Church awarded to JOHN McSHAIN, 1610 North St., Philadelphia. Estimated cost, $40,000.

Penn., Pittsburgh—Cenearal contract for five-story, 84x114-ft. building for First U. P. Church awarded to ROSE & FISHER. Noted Nov. 11.

D. C., Washington—Contract for office building at 901 Massachusetts Ave. for American Federation of Labor awarded to R. P. WHITBY CO. Estimated cost, $90,000.

S. C., Columbia—General contract for high school awarded to GEORGE W. WARING, Columbia, at $97,979.

Ky., Louisville—ALFRED STRUCK CO., Louisville, at about $45,000, awarded contract for new building for Western Union Telegraph Co.

Ohio, Akron—INDIANA ENGINEERING AND CONSTRUCTION CO., Ft. Wayne, awarded contract for business block. Estimated cost, $80,000.

Ohio, Canton—ROBERT H. EVANS & CO., Columbus, at $408,443, awarded contract for high school. Noted Oct. 14.

Ohio, Columbus—(Official)—Dawson Construction Co., May Bldg., Pittsburgh, Penn., at $40,000, submitted lowest bid for homeopathic hospital at Ohio State University. Noted Nov. 11.

Ohio, Dayton—Contract for two-story addition to Steele High School awarded to STRUCTURAL CONCRETE CO., Dayton, at $62,000. Noted Sept. 30.

Ind., Evansville—Bids were received Oct. 31 for coliseum for county as follows: H. W. Klausman, Indianapolis, $123,660; W. M. Sutherland, St. Louis, $123,889; A. W. Stallman, Champaign, Ill., Mo., $124,779. Noted Oct. 14.

Ind., Marion—(Official)—All bids received Nov. 11 for high school rejected. Estimated cost, $150,000. Noted Sept. 16.

Ill., Chicago—Bids received by Board of Education for three-story assembly hall addition to Beaubien School from Franzen Construction Co., $8,978; Gage Structural Steel Co., $11,529; Bolters Sons, $10,239, structural steel; B. J. Regnall Co., $7,984; Hauson Bros., $7,288; H. Schrick, $8,060, carpentry; H. Schrick, $19,537; F. A. Siebold, $18,483; S. N. Neilson, $18,858, masonry; Frust & Fanning, $7,449; A. G. Ward, $7,800; James A. Hagen, $7,980, stone. Noted Nov. 18.

Ill., Chicago—Bids were received Nov. 13 for general contract for Chicago Municipal Tuberculosis Hospital as follows: Thomas G. Gage Co., $65,000; William Adams Co., $68,975; H. Ellenberger & Co., $78,459.

Ill., Danville—Contract for four-story, 75x150-ft. building for Masonic Lodge awarded to YEAGER & SON, Danville. Estimated cost, $150,000.

Wis., Sheboygan—Contract for city hall awarded to IMMEL CONSTRUCTION CO., Fond du Lac. Estimated cost, $99,000.

Iowa, Waterloo—LANITZEN CONSTRUCTION CO., Lafayette Bldg., awarded contract for three-story 48x136-ft. parochial school for Sacred Heart Church congregation. Estimated cost $46,000. Noted Nov. 18.

Minn., Gary—Contract awarded to ALEXANDER ROBERTS, 1606 Minnesota Ave., Duluth, for brick hotel for George A. Pine. Estimated cost, $44,000.

Mo., Jefferson City—Contract for office building awarded to LOGAN CONSTRUCTION CO., Carthage. Estimated cost, $70,000.

Mo., St. Louis—Bids were received Nov. 19 by Board of Public Works for first unit of children's building for City of St. Louis from John Hill Construction Co., St. Louis, $65,747; Murch Bros. Construction Co., St. Louis, $67,200; Gillick Bros., St. Louis, $67,498. Noted Nov. 11.

Tex., El Paso—Contract for courthouse awarded to J. E. MORGAN, El Paso, at $364,971. Noted Oct. 14.

Wash., Spokane—Contract for proposed office building at Riverside Ave. and Stevens St. awarded to HURLEY-MASON CO., Spokane. Estimated cost, $125,000.

Calif., Los Angeles—Contract for eight-story, reinforced-concrete office building at Los Angeles and Sixth St. awarded to WEYMOUTH CROWELL, 2026 West Ninth St., Los Angeles.

The American Society of Civil Engineers will draft a federal law to eliminate existing disputes and open the way for a $50,000,000 project on the Columbia River in Oregon for the manufacture of nitrates to be used in the manufacture of explosives.

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Contract 166

Bids were received by the Board of Water Supply, Oct. 19, for Contract 166, constructing two galvanized-steel covered superstructures for drainage chambers at shafts 11 and 21 of the tunnel of the Catskill Aqueduct from (A) NORTHEASTERN CONSTRUCTION CO., 225 Fifth Ave., New York (awarded contract); (B) Louis Wechsler, 1133 Broadway, New York; (C) Levering & Garrigues Co., 552 West 23d St., New York; (D) A. L. Guldone & Son, Inc., 161 East 23d St., New York; (E) Simon Russek, Inc., 261 Broadway, New York; (F) William H. Egan, 147 East 25th St., New York; (G) H. C. Stowe Construction Co., 221 Greenpoint Ave., Brooklyn; (H) James MacArthur Co., 22 Ormond Pl., Brooklyn; (I) Snare & Triest Co., 233 Broadway, New York; (J) Post & McCord, 101 Park Ave., New York; (K) Vulcan Rail and Construction Co., 35 Meserole Ave., Brooklyn; (L) Marble Arch Co., 216th St. and Broadway, New York. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
460,000 lb. structural steel	$0.03325	$0.035	$0.0377	$0.03951	$0.039	$0.0375	$0.0365	$0.043	$0.04	$0.04	$0.0455	$0.04
24,000 lb. galvanized sheet steel and miscellaneous iron and steel	.114	.155	.102	.09	.11	.1675	.154	.08	.14	.17	.1325	.15
20 M. ft. b.m. timber and lumber	63.60	46.00	54.00	75.00	63.00	58.00	55.00	55.00	70.00	46.00	97.00	60.00
4,000 sq.ft. roofing	.03	.05	.036	035	.03	.04	.055	.08	.07	.24	.0425	.04
Doors and windows in building at shaft 11 (lump sum)	788.50	1,150.00	805.00	784.00	1,130.00	1,539.00	1,200.00	1,800.00	1,500.00	1,956.00	960.00	2,500.00
Doors and windows in building at shaft 21 (lump sum)	660.16	950.00	720.00	869.00	1,020.00	1,339.00	1,000.00	1,767.00	1,400.00	2,016.00	810.00	2,200.00
17-ton electrically-operated crane in building at shaft 11 (lumps um)	4,200.00	3,075.00	3,830.00	3,458.00	3,170.00	3,100.00	4,700.00	2,900.00	3,600.00	3,073.00	4,800.00	4,500.00
18-ton hand-crane in building at shaft 21 (lump sum)	2,184.00	1,650.00	1,940.00	1,662.00	1,460.00	1,500.00	1,700.00	1,450.00	2,850.00	1,597.00	1,900.00	2,500.00
20 cu.yd. concrete masonry	15.60	20.00	15.70	9.50	25.00	28.00	18.00	15.00	25.00	22.90	17.00	20.00
Extended totals	$27,567	$28,165	$28,623	$28,937	$29,240	$30,628	$30,766	$31,337	$33,290	$33,460	$35,030	$35,460

Brown & Clarkson, Washington, D. C., has moved its office from the Star Bldg. to the Oxford Bldg., 14th and New York Ave. Both members of this firm were for a number of years with the U. S. Geological Survey; the firm is specializing in topographic mapping and precise surveys of all kinds. It did the topographic mapping of the Cincinnati Topographic Survey, covering an area of 100 sq. miles, for the Department of Sewerage Investigation, City of Cincinnati, Ohio.

Burns & McDonnell, Consulting Engineer, has moved its offices from the Scarritt Bldg. to Suite 400, Interstate Bldg., Kansas City, Mo.

E. M. Hagar, former president of the Universal Portland Cement Co., declined W. E. Corey's invitation to join the Midvale Steel and Ordnance Co.'s official staff, because he prefers to devote his whole attention to his new $20,000,000 cement merger, called Hagar Portland Cement Co., although his plans have been temporarily delayed on advice of financial backers awaiting more favorable conditions for new merger enterprises.

Industrial Works, Bay City, Mich., has established an office in the Widener Bldg., Philadelphia, Penn. Information can be obtained from its Philadelphia office regarding wrecking and freight-handling cranes, pile drivers, locomotives, etc.

Capital to the Amount of $50,000,000 may be attracted to Alabama for the purpose of building a plant to generate nitrogen, providing the permission of the government is secured for the construction of two more dams on the Coosa River.

CATALOG NOTICES

The Hydraulic Pressed Steel Co., Cleveland, Ohio. Catalog. "Hydraulic" pressed steel forms for concrete construction. Illustrated, 96 pp., 5x8 in.

B. F. Sturtevant Co., Hyde Park, Boston, Mass. Bulletin No. 221. Electric fans. Illustrated, 24 pp., 6½x9 in.

A. M. Byers Co., Pittsburgh, Penn. Bulletin No. 26. Wrought iron pipe. Illustrated, 24 pp., 8½x11 in.

Asbestos Protected Metal Co., Pittsburgh, Penn. Bulletin No. 56. "Waugh" grazing construction. Illustrated, 24 pp., 8x10½ in.

Ingersoll-Rand Co., 11 Broadway, New York. Catalog No. 76. "Water Lifted By Compressed Air." Illustrated, 80 pp., 6x9 in. Form No. 9201. Calyx core drills. Illustrated, 128 pp., 6x9 in.

General Electric Co., Schenectady, N. Y. Bulletin No. 44,005. Line material and rail bonds for mine and industrial haulage. Illustrated, 76 pp., 8x10½ in.

Chicago Pneumatic Tool Co., Fisher Bldg., Chicago, Ill. Booklet No. 213. Simplate flat disc valves. Illustrated, 16 pp., 3½x6 in. Bulletin No. 216. "Hummer" self rotating hammer drills. Illustrated, 28 pp., 6x9 in.

American Bitumastic Enamels Co., 17 Battery Pl., New York. Pamphlet. "Recent Achievements in the Prevention of Corrosion." Illustrated, 48 pp., 8x10½ in.

Ball Engine Co., Erie, Penn. Bulletin S-12. Erie revolving shovels. Illustrated, 12 p., 8½x11 in.

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Contract 128

Bids were received by the Board of Water Supply, Oct. 26, for Contract 128, constructing two superstructures for Hill View Intake and Downtake Chambers, in City of Yonkers from (A) William H. Egan, 147 East 125th St., New York; (B) The Marble Arch Co., 216th St. and Broadway, New York; (C) Louis Wechsler, 1133 Broadway, New York; (E) Conners Bros. Co., 64 West 88th St., New York; (F) Frederic W. Burnham, 30 East 42d St., New York; (G) Emerson Building Co., 103 Park Ave., New York; (H) P. F. Kenny Co., 33 Old Broadway, New York. The item bids were as follows:

	A	B	C	D	E	F	G	H
1,000 bbl. gray Portland cement	$1.70	$2.50	$1.70	$1.60	$2.00	$1.75	$1.57	$2.25
250 bbl. white Portland cement	3.20	4.00	3.00	3.00	4.00	4.00	2.90	3.80
Hill View Uptake Chamber superstructure, exclusive of items 1 and 2 (lump sum)	35,353.00	39,000.00	38,100.00	37,254.00	39,300.00	46,750.00	49,000.00	48,000.00
Hill View Downtake Chamber superstructure, exclusive of items 1 and 2 (lump sum)	56,556.00	54,000.00	58,100.00	60,184.00	63,700.00	69,300.00	71,000.00	74,816.00
Extended totals	$94,409	$96,500	$98,650	$99,788	$106,000	$118,800	$122,295	$126,016

STATE HIGHWAYS—CALIFORNIA

Bids were received by the State Highway Commission, Sacramento, Calif., for constructing highways in Sonoma, Placer and Mariposa Counties, from (A) L. F. Gerdetz Co., San Francisco; (B) F. Rolandi, San Francisco; (C) J. A. Marshall, Berkeley; (D) P. H. Hoare, Oakland; (E) A. J. Fairbanks, Willits; (F) Palmer & McBryde, San Francisco; (G) Bauer & Beard, Two Rivers; (H) Bates, Borland & Ayer, Oakland; (I) G. W. Conners, Eureka; (J) Moffett & Mead, San Francisco; (K) Spring Construction Co., Berkeley; (L) W. B. Hunt & Sons, Alameda; (M) O'Brien Bros., Martinez; (N) M. Blumenkranz, Stockton; (O) Forest Paving and Construction Co., Live Oak; (P) Taylor & Berdiner, Willows; (Q) Whitlock & Gorrill, Durham; (R) Twohy Bros. Co., San Francisco; (S) C. H. & A. W. Gorrill, San Francisco; (T) Manuel Jacinto, Sacramento; (U) George R. Daley, San Diego; (V) Toohey & Johnson, Dunsmuir; (W) J. F. Fitzpatrick, Red Bluff; (X) W. J. Schmidt, Berkeley; (Y) George S. Benson & Sons, Los Angeles; (Z) Occidental Construction Co., Los Angeles; (Z-1) Engineer's estimate. The item bids were as follows:

Sonoma County	A	B	C	D	E	F	G	H	I	J	K	L	M	(Z-1)
43,500 cu.yd. excavation unclassified	$0.55	$0.59	$0.42	$0.43	$0.50	$0.48	$0.485	$0.38	$0.52	$0.42	$0.365	$0.54	$0.48	$0.50
14 M b.m. Oregon pine lumber in place	40.00	40.00	35.00	34.00	30.00	30.00	28.00	32.00	50.00	40.00	42.50	18.00	40.00	30.00
19 M b.m. Redwood lumber in place	45.00	50.00	40.00	39.00	32.00	35.00	32.50	40.00	50.00	45.00	48.20	18.00	40.00	32.50
266 lin.ft. 12-in. corrugated metal pipe	.75	.50	.60	.30	.50	.50	.55	.50	.50	.50	.53	.60	.60	.50
120 lin.ft. 15-in. corrugated metal pipe	1.00	.60	.80	.30	.60	.60	.60	.50	.55	.60	.65	.70	.60	.60
194 lin.ft. 18-in. corrugated metal pipe	1.20	.70	.90	.40	.80	.70	.70	.60	.60	.70	.75	.80	1.00	.70
442 lin.ft. 24-in. corrugated metal pipe	1.25	.80	1.00	.65	1.00	.80	.80	.75	.65	.90	1.10	1.10	1.25	.80
264 lin.ft. 30-in. corrugated metal pipe	1.50	1.00	1.00	.75	1.25	1.00	.80	.75	.75	1.00	1.30	1.30	1.50	1.10
1,200 lin.ft. 4-in. tile drain	.40	.30	.50	.25	.25	.15	.35	.10	.35	.20	.30	.65	.15	.25
185 cu.yd. concrete, Class B, culverts and monuments	15.00	20.00	16.00	12.50	8.00	13.00	14.50	10.00	10.00	14.00	10.00	15.00	11.00	10.00
2,400 lin.ft. moving and resetting property fences	.15	.10	.05	.05	.04	.05	.025	.04	.05	.04	.10	.07	.06	.06
4,200 lin.ft. board and wire new property fences	.15	.10	.05	.03	.04	.04	.035	.04	.04	.05	.05	.05	.06	.036
32,400 lin.ft. woven wire new property fences	.15	.09	.05	.04	.05	.04	.04	.04	.045	.06	.045	.05	.06	.045
76 monuments	1.00	1.00	1.00	1.50	1.00	1.10	1.25	1.00	1.00	1.00	2.00	.50	1.00	.50
Extended totals	$36,022	$35,845	$26,242	$24,869	$27,650	$27,176	$27,727	$22,183	$29,163	$25,408	$22,852	$30,903	$28,205	$31,870

Mariposa County	B	I	U	V	W	X	Y	Z	(Z-1)
53,000 cu.yd. excavation	$0.62	$0.58	$0.38	$0.40	$0.60	$0.55	$0.74	$0.75	$0.45
1,700 cu.yd. excavation, solid rock	1.10	1.00	1.50	.90	1.20	1.90	.74	1.50	1.00
1,024 lin.ft. 12-in. corrugated metal pipe	.50	.50	.80	.60	.60	.60	.90	.50	1.00
156 lin.ft. 18-in. corrugated metal pipe	.60	.50	.90	.70	.75	.85	.90	.70	1.00
406 lin.ft. 24-in. corrugated metal pipe	.80	.60	1.00	.80	.90	1.00	1.00	.95	1.30
310 lin.ft. 30-in. corrugated metal pipe	1.10	.70	1.25	1.00	1.10	1.25	1.00	1.20	1.75
810 cu.yd. concrete, Class B, culverts and monuments	15.00	15.00	20.00	24.00	17.00	15.00	17.50	17.00	15.00
2,324 lin.ft. guard rail	.35	.40	.75	.60	.40	.50	.80	.50	.40
290 monuments	1.00	1.00	1.25	1.25	2.00	1.00	3.00	1.00	.50
Extended totals	$49,254	$46,860	$45,285	$45,285	$50,557	$47,522	$59,160	$58,900	$47,178

Placer County	A	F	H	N	O	P	Q	R	S	T	(Z-1)
45,000 cu.yd. excavation unclassified	$0.60	$0.60	$0.65	$0.50	$0.60	$0.55	$0.45	$0.42	$0.39	$0.475	$0.45
480 lin.ft. 12-in. corrugated metal pipe	.75	.50	.50	.50	.40	.70	.50	.30	.55	.50	.30
330 lin.ft. 18-in. corrugated metal pipe	1.00	.60	.50	.60	.50	.80	.60	.50	.60	.50	.40
120 lin.ft. 24-in. corrugated metal pipe	1.25	.70	.75	.75	.60	1.00	.70	.60	.70	.50	.50
235 cu.yd. concrete, Class B, culverts and monuments	12.00	12.50	10.00	10.00	10.00	9.50	10.00	9.00	9.00	10.00	9.00
8,760 cu.yd. concrete, Class B, pavement	2.80	3.25	3.50	3.15	2.95	2.70	3.00	2.98	2.98	3.50	2.85
3,120 lin.ft. guard rail	.35	.30	.35	.40	.35	.50	.35	.50	.30	.50	.35
88 monuments	1.00	1.00	1.00	1.00	1.10	1.00	1.00	.60	1.00	2.00	.50
Extended totals	$56,368	$59,953	$63,935	$54,308	$56,809	$53,002	$50,582	$49,113	$47,339	$56,586	$56,123

SEWER—CLINTON, IOWA

Bids were received Sept. 14 for constructing sewers in District No. 2 and 3 from (A) D. E. Keeler, Davenport; (B) A. C. Comstock, Cedar Rapids; (C) Independent Construction Co., Davenport; (D) Illinois Improvement and Ballast Co., Chicago, Ill.; (E) O'Neal & Preston, St. Paul, Minn.; (F) James Kennedy, Fargo, N. D.; (G) Dearborn Construction Co., Waterloo; (H) THOMAS CAREY & SONS, Clinton (awarded contract). The item bids were as follows:

DISTRICT NO. 3—Division A

	A	B	C	D	E	F	G	H
Bulkhead, segment block	$800.00	$1,000.00	$500.00	$610.00	$780.00	$700.00	$500.00	$550.00
Bulkhead, reinforced concrete	800.00	.....	.....	610.00	.....	.....	.....	550.00
1,710 lin.ft. 54-in. segment-block sewer	8.70	9.00	8.25	8.50	8.76	8.40	9.26	8.15
1,710 lin.ft. reinforced-concrete sewer	9.50	.....	.....	9.00	.....	.....	.....	9.00
920 lin. ft. 45-in. segment-block sewer	8.00	9.00	7.30	7.50	7.40	7.60	9.48	7.15
920 lin.ft. 45-in. reinforced-concrete sewer	9.65	.....	.....	8.25	.....	.....	.....	8.20
1,240 lin.ft. 39-in. segment-block sewer	8.00	9.00	7.15	7.50	7.40	7.50	7.50	7.15
1,240 lin.ft. 39-in. reinforced-concrete sewer	9.65	.....	.....	8.25	.....	.....	.....	8.20
1,063 lin.ft. 36-in. segment-block sewer	6.50	8.00	6.25	6.50	7.00	6.40	6.44	6.15
1,063 lin.ft. 36-in. reinforced-concrete sewer	7.89	.....	.....	7.60	.....	.....	.....	7.50
700 lin.ft. 33-in. segment-block sewer	5.00	7.00	5.20	5.50	5.75	5.00	5.49	5.15
700 lin.ft. 36-in. reinforced-concrete sewer	7.40	.....	.....	7.25	.....	.....	.....	7.25
323 lin.ft. 30-in. segment-block sewer	4.75	6.00	4.50	4.50	4.00	4.70	2.88	4.15
323 lin.ft. 30-in. reinforced-concrete sewer	7.20	.....	.....	6.75	.....	.....	.....	6.40
235 cu.yd. rock (track) excavation (segment block)	5.00	10.00	5.00	6.00	6.00	7.00	5.00	5.00
235 cu.yd. rock (track) excavation (reinforced concrete)	5.00	.....	.....	6.00	.....	.....	.....	5.00
4,361 cu.yd. rock excavation (segment block)	4.00	4.00	3.50	4.00	4.00	3.75	4.00	3.50
4,361 cu.yd. rock excavation (reinforced concrete)	4.00	.....	.....	4.00	.....	.....	.....	3.50
15 manholes No. 1 (segment block)	80.00	80.00	75.00	60.00	70.00	80.00	35.00	50.00
15 manholes No. 2 (reinforced concrete)	80.00	.....	.....	60.00	.....	.....	.....	50.00
3 manholes No. 2 (segment block)	100.00	100.00	100.00	90.00	95.00	80.00	85.00	75.00
3 manholes No. 2 (reinforced concrete)	100.00	.....	.....	90.00	.....	.....	.....	75.00
28 catch basins (segment block)	35.00	35.00	35.00	40.00	42.00	32.00	35.00	35.00
28 catch basins (reinforced concrete)	35.00	.....	.....	40.00	.....	.....	.....	35.00
420 lin.ft. catch-basin connections (segment block)	.50	.40	.55	.60	.60	.53	.50	.50
420 lin.ft. catch-basin connections (reinforced concrete)	.50	.....	.....	.60	.....	.....	.....	.50

Division B

320 lin.ft. 24-in. vitrified sewer pipe	2.30	3.00	2.50	2.75	2.70	2.65	2.50	2.50
320 lin.ft. 24-in. concrete sewer pipe	....	....	....	3.50	....	....	....	3.00
370 lin.ft. 22-in. vitrified sewer pipe	2.00	3.00	2.00	2.00	2.10	1.90	2.15	1.75
370 lin. ft. concrete sewer pipe	....	....	....	3.00	....	....	....	2.40
570 lin.ft. 20-in. vitrified sewer pipe	2.50	3.00	2.10	2.00	2.25	2.00	2.00	2.00
570 lin.ft. 20-in. concrete sewer pipe	....	....	....	3.00	....	....	....	2.40
1,435 lin.ft. 18-in. vitrified sewer pipe	1.40	2.50	1.45	1.50	1.65	1.30	1.60	1.30
1,435 lin.ft. 18-n. concrete sewer pipe	....	....	....	2.00	....	....	....	1.65
3,364 lin.ft. 15-in. vitrified sewer pipe	1.35	1.50	1.30	1.40	1.33	1.25	1.35	1.25
3,364 lin.ft. 15-in. concrete sewer pipe	....	....	....	1.50	....	....	....	1.45
3,848 lin.ft. 12-in. vitrified sewer pipe	.90	1.00	.92	.90	.95	.85	.90	.90
3,848 lin.ft. 12-in. concrete sewer pipe	....	....	....	1.25	....	....	....	1.20
5,279 lin.ft. 10-in. vitrified sewer pipe	.83	.90	.75	.80	.85	.78	.75	.67
5,279 lin.ft. 10-in. concrete sewer pipe	....	....	....	1.00	....	....	....	.90
1,670 lin.ft. 8-in. vitrified sewer pipe	.55	.70	.58	.60	.67	.59	.60	.60
1,670 lin.ft. 8-in. concrete sewer pipe	....	....	....	.75	....	....	....	.75
2,091 cu.yd. rock excavation (vitrified)	4.00	4.00	3.50	4.00	4.00	3.75	4.00	3.50
2,091 cu.yd. rock excavation (concrete)	....	....	....	4.00	....	....	....	3.50
46 manholes No. 1 (vitrified)	40.00	40.00	38.00	40.00	42.00	37.00	35.00	35.00
46 manholes No. 1 (concrete)	....	....	....	40.00	....	....	....	35.00
104 catch basins (vitrified)	35.00	35.00	35.00	40.00	42.00	32.50	35.00	35.00
104 catch basins (concrete)	....	....	....	40.00	....	....	....	35.00
1,560 lin.ft. catch-basin connections (vitrified)	.50	.40	.55	.60	.60	.53	.50	.50
1,560 lin.ft. catch-basin connections (concrete)	....	....	....	.60	....	....	....	.50
Extended totals for segment-block sewer	$66,209.00	$73,614.00	$63,797.00	$64,954.00	$66,118.00	$63,734.00	$66,564.00	$60,016.00
Extended totals for reinforced-concrete sewer	75,233.00	.....	.....	70,499.00	.....	.....	.....	67,370.00
Extended totals for vitrified sewer	32,838.00	36,509.00	31,253.00	33,610.00	34,627.00	31,134.00	32,391.00	30,008.00
Extended totals for concrete sewer	....	.....	.....	38,397.00	.....	.....	.....	34,431.00

DISTRICT NO. 2

	A	B	C	D	E	F	G	H
Bulkhead (vitrified)	$350.00	$500.00	$360.00	$410.00	$275.00	$375.00	$500.00	$300.00
Bulkhead (concrete)	....	.....	.....	410.00	.....	.....	.....	300.00
675 lin.ft. 33-in. vitrified sewer pipe	6.00	8.00	6.30	6.50	6.25	6.25	5.00	6.00
675 lin.ft. 33-in. concrete sewer pipe	....	.....	.....	8.00	.....	.....	.....	8.00
300 lin.ft. 33-in. D.S. track (vitrified)	8.00	10.00	7.50	6.50	8.50	7.25	6.00	6.00
300 lin.ft. 33-in. D.S track (concrete)	....	.....	.....	9.00	.....	.....	.....	8.00
592 lin.ft. 30-in. vitrified sewer pipe	4.70	6.00	4.20	4.50	4.40	4.60	4.80	4.10
592 lin.ft. 30-in. concrete sewer pipe	....	.....	.....	9.50	.....	.....	.....	6.25
674 lin.ft. 28-in. vitrified sewer pipe	3.80	6.00	3.75	4.00	4.20	3.90	4.60	3.60
674 lin.ft. 28-in. concrete sewer pipe	....	.....	.....	5.50	.....	.....	.....	5.00
345 lin.ft. 27-in. vitrified sewer pipe	3.30	5.00	3.20	3.50	4.00	3.40	4.40	3.10
345 lin.ft. 27-in. concrete sewer pipe	....	.....	.....	5.50	.....	.....	.....	5.00
195 lin.ft. 22-in. vitrified sewer pipe	3.45	4.50	3.20	3.50	3.75	3.25	2.19	3.10
195 lin.ft. 22-in. concrete sewer pipe	....	.....	.....	3.80	.....	.....	.....	3.80
480 lin.ft. 20-in. vitrified sewer pipe	2.60	3.50	2.25	2.50	2.75	2.15	2.00	2.10
480 lin.ft. 20-in. concrete sewer pipe	....	.....	.....	2.75	.....	.....	.....	2.60
1,030 lin.ft. 15-in. vitrified sewer pipe	1.65	2.00	1.40	1.50	1.55	1.40	1.35	1.35
1,030 lin.ft. 15-in. concrete sewer pipe	....	.....	.....	1.75	.....	.....	.....	1.65
1,295 lin.ft. 12-in.vitrified sewer pipe	1.05	1.05	.90	.85	1.10	1.05	.90	.85
1,295 lin.ft. 12-in. concrete sewer pipe	....	.....	.....	1.35	.....	.....	.....	1.35
6,740 lin.ft. 10-in. vitrified sewer pipe	.90	.90	.85	.90	.85	.86	.80	.80
6,740 lin.ft. 10-in. concrete sewer pipe	....	.....	.....	1.10	.....	.....	.....	1.05
150 lin.ft. 8-in. vitrified sewer pipe	.55	.55	.55	.60	.50	.50	.60	.50
150 lin.ft. 8-in. concrete sewer pipe	....	.....	.....	.60	.....	.....	.....	.70
40 manholes (vitrified)	40.00	40.00	38.00	40.00	42.00	37.00	35.00	35.00
40 manholes (concrete)	....	.....	.....	40.00	.....	.....	.....	35.00
68 catch basins (vitrified)	35.00	35.00	35.00	40.00	42.00	32.00	35.00	35.00
68 catch basins (concrete)	....	.....	.....	40.00	.....	.....	.....	35.00
1,020 catch-basin connections (vitrified)	.50	.40	.55	.60	.60	.53	.50	.50
1,020 catch-basin connections (concrete)	....	.....	.....	.60	.....	.....	.....	.50
81 cu.yd. rock (track) excavation (vitrified)	5.00	10.00	5.00	4.50	4.50	7.00	5.00	5.00
81 cu.yd. rock (track) excavation (concrete)	....	.....	.....	4.50	.....	.....	.....	5.00
2,948 cu.yd. rock excavation (vitrified)	4.00	4.00	3.50	4.00	4.00	3.75	4.00	3.40
2,498 cu.yd. rock excavation (concrete)	....	.....	.....	4.00	.....	.....	.....	3.40
Extended totals for vitrified sewer	$39,321.00	$45,536.00	$36,712.00	$39,287.00	$40,070.00	$37,774.00	$37,247.00	$34,831.00
Extended totals for concrete sewer	....	.....	.....	43,144.00	.....	.....	.....	42,671.00

CONTRACT PRICE

ELEVATED RAILWAY WORK, PHILADELPHIA, PENN.

Bids were received by the Department of City Transit, Oct. 19, for constructing the steel superstructure of elevated railway work in Front St. from Callowhill St. to South of Girard Ave., Contract No. 511, from (A) McClintic-Marshall Co., Philadelphia; (B) Pennsylvania Steel Co., Steelton; (C) Conners Bros. Co., New York, N. Y.; (D) E. E. Smith Contracting Co., New York, N. Y. The item bids were as follows:

	A	B	C	D
Whole work as shown on plans, proposed line (lump sum)	$249,000.00	$265,940.00	$283,000.00	$282,665.00
Whole work as shown on plans, alternate line (lump sum)	261,400.00	279,500.00	304,000.00	304,465.00
10,000 lb. riveted steel girders	.0315	.033	.04	.0425
10,000 lb. rolled steel beams	.029	.028	.04	.0425
10,000 lb. steel columns	.04	.042	.04	.0425
10,000 lb. steel rods	.04	.0405	.035	.03
10,000 lb. iron castings	.025	.03	.05	.04
100 cu.yd. excavation	1.25	1.10	2.00	2.00
100 cu.yd. concrete	10.00	11.80	7.50	8.00
100 sq.yd. asphalt paving	4.50	3.00	3.00	2.50
100 sq.yd. new granite block paving	4.50	4.50	3.50	4.00
100 sq.yd. new vitrified block paving	4.50	3.75	3.00	3.00
100 sq.yd. new wood block paving	4.50	4.00	3.50	4.00
100 sq.yd. granite, wood or vitrified block repaving, concrete base	2.25	2.50	2.25	4.00
100 sq.yd. granite, wood or vitrified block repaving, gravel base	2.00	1.50	1.50	3.00
100 sq.yd. granolithic sidewalk paving	1.50	2.00	1.50	2.00
100 sq.yd. flagstone sidewalk repaving	.75	.50	1.00	3.00
100 sq.yd. brick sidewalk paving	1.00	1.10	3.00	2.00
100 lin.ft. 6-in. straight granite curb	1.00	1.25	3.25	1.50
100 lin.ft. 8-in. straight granite curb	1.20	1.50	3.50	2.50
100 lin.ft. 6-in. or 8-in. curved granite curb	2.25	2.00	4.00	3.00
100 lin.ft. granolithic curb	.55	.60	.80	1.00
100 lin.ft. resetting stone curb	.50	.50	.30	.60
1,000 ft. b.m. yellow pine lumber	55.00	60.00	65.00	40.00
10,000 dollars force account (per cent. added)	12½%	20%	10%	15%
Extended totals of bid, proposed line	$256,185	$273,895	$290,475	$290,790
Extended totals of bid, alternate line	268,585	287,455	311,475	312,590

Sand and Gravel Production in the United States for the year 1914 has just been reported in a bulletin by G. F. Loughlin, of the United States Geological Survey. The following table shows the total production of sand and gravel, including glass sand, from 1904 to 1914:

Year	Quantity Short Tons	Value	Year	Quantity Short Tons	Value
1904	10,679,728	$5,748,099	1910	69,410,436	$21,037,630
1905	23,204,967	11,223,645	1911	66,846,959	21,158,583
1906	32,932,002	12,698,208	1912	68,354,561	23,113,208
1907	41,851,918	14,492,069	1913	79,555,849	24,217,508
1908	37,216,044	13,270,032	1914	79,281,735	23,846,999
1909	59,565,551	18,336,990			

More complete returns account principally for the large apparent increase during recent years as compared with 1904. Sand for building purposes constituted, as in previous years, more than one-half of the total sand production. The production in 1914 was 24,003,962 short tons, valued at $7,688,774. This was a decrease of 1,393,421 tons, or 5.4% in quantity and of $319,275, or 3.9%, in value from the production of 1913. The average price per ton, which increased from 31c. in 1911 to 33½c. in 1912 and decreased to 31½c. in 1913, increased to 32c. in 1914. Paving-sand production increased slightly in both quantity and value from 3,335,508 tons, valued at $1,020,389, in 1913 to 3,580,171 tons, valued at $1,121,999, in 1914. The production of gravel in 1914 exceeded that of building sand by more than 15,000,000 tons, an excess which was 2,000,000 tons more than that in 1913. The total production of gravel in 1914 was $39,212,858 tons, valued at $9,398,897, an increase in quantity of 689,360 tons and in value of $556,086 over the production of 1913. These figures show an average cost ton of nearly 25c., as compared with slightly less than 23c. in 1913 and about 26c. in 1912. The entire report of the production of sand and gravel is necessarily incomplete, because it is impracticable to attempt to get reports or to estimate the quantity of sand produced by the thousands of individuals who each year dig a small quantity for their own use.

On Nov. 12 and 13 the sales engineers of the Blaw Steel Construction Co. held their annual convention in Pittsburgh, Penn. The men met Friday morning at the works at Hoboken, Penn., and made an inspection of the plant. A number of new devices were shown and the men were entertained at luncheon in the dining room of the Blaw plant. In the evening a banquet was held at the Concordia Club, where 63 men assembled. A feature was a play in which various members of the Blaw Organization were imitated. This was along the lines of the annual meeting of the Gridiron Club in Washington. Following this, the Convention reconvened for serious work on Saturday. Some very interesting tests were made of the workings of the various Blaw products. The Blaw Steel Construction Co. is a designer and builder of steel forms for every type of concrete construction.

The Department of Commerce in a recent report issued the following, giving details showing the value of merchandise imported from and exported to each of the principal countries during August and the eight months ended with August 1915, compared with corresponding periods of the preceding year.

Imports from:	Month of August 1914	Month of August 1915	8 Months Ended with August 1914	8 Months Ended with August 1915
Grand Divisions—				
Europe	$50,620,866	$38,142,368	$565,147,023	$351,389,547
North America	39,217,253	46,104,723	309,480,732	354,367,501
South America	15,095,782	22,280,972	157,448,040	199,449,175
Asia	20,629,273	31,438,884	190,907,276	184,017,968
Oceania	3,514,573	2,440,359	32,327,846	38,662,981
Africa	690,143	1,396,896	15,050,346	22,941,588
Total	$129,767,890	$141,804,202	$1,270,361,263	$1,150,858,760
Principal Countries—				
Austria-Hungary	$880,506	$113,061	$12,802,157	$4,540,168
Belgium	2,329,145	76,368	28,184,693	1,771,434
France	6,902,603	7,538,826	77,309,772	46,994,257
Germany	9,400,043	725,244	119,887,898	36,819,943
Italy	3,445,825	2,694,413	36,987,465	34,496,134
Netherlands	3,446,031	1,831,813	24,418,125	17,271,961
Norway	1,071,991	659,771	6,714,829	4,617,563
Russia in Europe	740,766	440,124	12,096,202	912,373
Sweden	614,322	1,158,911	7,240,898	7,504,829
United Kingdom	17,872,280	18,535,932	194,708,846	161,737,848
Canada	15,550,650	15,853,723	105,590,085	101,360,082
Mexico	6,154,189	8,638,928	61,511,188	58,846,452
Cuba	14,524,219	17,411,854	111,633,962	156,175,825
Argentina	4,173,415	6,214,692	40,751,672	61,253,369
Brazil	5,094,398	5,998,404	62,633,412	66,557,308
China	2,482,149	4,515,138	25,465,870	32,320,521
India, British	4,403,791	7,358,316	52,794,013	42,735,263
Japan	10,068,124	10,063,178	68,737,653	62,752,966
Australia	751,888	978,611	14,270,660	21,996,923
Exports to:				
Grand Divisions—				
Europe	$48,875,232	$172,495,744	$783,921,580	$1,634,693,475
North America	47,670,215	52,072,286	333,212,508	335,937,399
South America	5,312,457	13,450,247	65,403,666	86,595,898
Asia	3,789,548	10,268,041	61,810,908	90,242,210
Oceania	3,306,885	9,269,451	49,936,201	62,005,215
Africa	1,413,157	3,469,181	17,064,793	22,333,868
Total	$110,367,494	$261,024,950	$1,311,349,656	$2,231,808,065
Principal Countries—				
Austria-Hungary	.....	$6,698	$12,798,495	$43,334
Belgium	$432,527	1,490,829	32,696,395	14,057,335
France	7,420,800	28,884,743	76,607,804	333,408,123
Germany	68,737	38,743	156,038,929	11,688,510
Italy	1,169,326	15,511,875	39,296,253	150,151,448
Netherlands	2,524,488	6,744,829	69,672,403	108,702,267
Norway	1,077,259	1,618,414	5,700,859	27,840,068
Russia in Europe	76,681	9,723,520	16,974,084	58,650,085
Sweden	312,723	4,258,322	7,985,212	61,703,589
United Kingdom	32,951,250	93,583,342	331,539,577	574,090,545
Canada	33,494,209	34,766,904	219,988,697	209,192,906
Mexico	2,520,130	3,598,577	22,037,281	25,189,017
Cuba	6,160,892	8,110,947	42,965,089	54,445,981
Argentina	971,129	4,573,089	19,648,581	31,149,868
Brazil	1,604,207	4,055,434	15,973,222	21,077,463
China	603,969	1,838,762	15,945,153	13,642,517
India, British	450,353	1,091,951	6,403,459	9,679,438
Japan	1,694,620	3,088,981	23,825,545	28,677,607
Australia	1,825,453	5,285,223	28,258,622	34,190,998

The Buffalo & Susquehanna Ry. is at last to be scrapped. Failing in a long attempt to find a buyer who would operate this road, the company was finally forced to abandon it and the Buffalo Housewrecking Co. at a bid of $220,000 took over the track and equipment.

The roadway to be abandoned runs from about the center of the village of Wellsville to Blasdell and was the western division of the Buffalo & Susquehanna R.R., which was built to Blasdell from Wellsville about 12 years ago. When financial troubles began, the Buffalo & Susquehanna Ry., the Buffalo-Westville road, was divorced from the Buffalo & Susquehanna R.R.

The coal business of the Buffalo & Susquehanna Ry. was diverted to the Pennsylvania R.R. and brought west by that route because it could be so carried more cheaply. The loss of the coal traffic created a situation whereby the receivers could not make the Buffalo & Susquehanna Ry. meet the cost of operation. The bondholders presented the matter in court about a year ago and obtained an order permitting them to abandon the road.

Citizens of Wellsville and other communities along the line interested themselves in trying to find someone to take and run the railway and were instrumental in having the order for the abandonment of the road extended from month to month, but in the end failed.

The bondholders still retain the right-of-way and a valuable water-front property near the Rogers-Brown steel plant.

Highway Improvements in Minnesota for 1916 will cost over $3,000,000 according to a recent statement of George W. Cooley, Secy. of the Highway Commission. Already the state has distributed $750,000 to the counties to aid in the cost of road building and maintenance, on both state and county roads. By the end of the year this will reach $1,500,000, and at least an equal sum is being expended by counties and villages.

In a recent letter to the state efficiency and economy commission answering its request for suggestions, Mr. Cooley urged a state automobile tax to provide a special fund for road maintenance.

He also recommended continuing the one-mile state tax, and making the state's share of state aid work 50 per cent. He strongly indorsed the present system, and letters from assistants in the department, along the same line, have been filed with the commission.

Construction News

PRICES AND BUSINESS CONDITIONS.

Although for a number of months past business in all lines affected by the war has been rushed, it is safe to say at this time that the foreign demand no longer overshadows domestic requirements. Even those lines of business that are last to feel the effects of good times are now busy, and in a great many cases with more orders than they can handle.

Prices for steel, iron and other metals are still advancing, with the high mark still to come. Some of the mills are sold so far ahead they are refusing any new foreign business in an effort to take care of the domestic trade. Outputs of record proportions are not sufficient to fill orders, and under the circumstances making deliveries is more important than getting new business. Tin plate for 1916 has advanced 40c. a box. Plates command a premium in most cases for prompt shipment. Dealers in black and galvanized sheets are sold so far ahead that one concern has been notified by their mill to accept no more orders before Aug., 1916, delivery. Coke is a little easier for prompt shipment than it has been, although lack of labor seems to be a serious handicap to any better conditions at present.

Scarcity of transports and lack of vessels for exporting are still tying up the supply of cars on the railroads, one of the western roads unloading all its cars either in St. Louis or Kansas City, in order to relieve the shortage west of that point. The railroads have placed orders with the car shops for over, 80,000 cars, and it is estimated that there are inquiries for about 60,000 more, the placing of which will be dependent on the builders getting the amount of steel necessary to build them. Orders for over 300,000 tons of rail were placed by the roads in November, and there are inquiries outstanding for at least 150,000 tons more. The railroads are showing a marked increase, both in their gross and net earnings. In the second week in November there was an increase of 25.7 per cent. in the gross earnings of the railroads which sent in their statements, and net earnings show an increase of between 20 and 25 per cent. This is not confined to any particular part of the country, but is general in all sections.

The lumber industry, which has been one of the last to be affected by good times, is now very busy, particularly in the case of yellow pine, which has advanced over $2 per thousand in the past six weeks. The railroads and car companies are buying liberally, and there is a good export demand. Dealers are expecting a large volume of business when the building season opens in the spring. The paint industry, which follows with the lumber business, is correspondingly busy, and the manufacturers are not accepting any future orders at prevailing prices, and are prophecying a considerable advance for 1916.

A marked improvement in the condition of the labor market during October and November, in spite of the greatly increased demand, is noticed. While unemployment has shown further decreases, the demand for labor has spread to practically all basic industries instead of being confined to munition plants and the metal working trade. It would seem that with the advance in prices of all building materials concerns would be somewhat cautious about doing any new building at the increased cost, but this does not seem to hold true. As the prices steadily increase we note a marked increase in building permits and sales of bonds for public work all over the country.

Official figures from Canada explain that the yield of Canadian wheat for this year was underestimated by more than 100,000,000, bushels, making a total of about 300,000,000 bushels from Canada alone. The British Government has attempted to forestall any cornering of the market in raising of prices by seizing the wheat in some of the Eastern elevators for which they are to pay the owners a fair price. It is understood that both in the United States and Canada that the 1916 grain crop will not be as heavy as this year. The immense yield of the present season and the consequent reduction of prices will have a tendency to discourage extraordinarily large seedings. The lateness and immensity of the small grain crop have made it almost impossible for farmers to get in the usual amount of their fall plowing, and consequently they are not in position, even if they would, to plant the crops next year that they have had this year. This is in marked contrast to conditions prevailing a year ago when the price of wheat was high, and the lateness of the season permitted the farmer to prepare an extra large acreage for planting.

The Crop Reporting Board of the Department of Agriculture in a statement issued in connection with, but not made a part of the official report, shows a table comparing the production of this year with three previous years, showing that 1915 is ahead on production of everything with the exception of corn, which was larger in 1912. The five leading cereals give collectively a yield of some 358,000,000 bushels greater than any previous annual yield, and based on November 1 prices against 1914, are of value about $155,000,000 more than last year.

Business failures as reported by Bradstreet for the weeks of November 18 and 25 are less than they were in 1914. For the week of Nov. 25 reporting 295, and Nov. 18, 389. About 86% of the total number, were less than $5,000, and 9% under $20,000 which leaves 5% of the failures over $20,000.

Money is very plentiful. In the past few days loans amounting to something like $206,000,000 having been announced in Wall Street. Part of these are domestic, and the balance the foreign powers. Russia has practically concluded negotiations for a $60,000,000 loan and the London banks have completed their loan of $50,000,000, the balance of the $206,000,000 having been loaned to different railroads throughout the country, most of it for much needed improvements.

CEMENT, STONE AND GRAVEL

Sand and Gravel—Local dealers say that business is still very good, and is considerably better than it has been for a number of years, although the volume of business has not seemed to have affected prices over the last two or three months. Sand is quoted at 45c. per cy.yd., some dealers asking 40c. on large orders. Gravel prices are as follows: Subway, 95c. per cu.yd., and paving, 75c. per cu.yd.; 1½-in. gravel, 80c. per cu.yd., and ¾-in. gravel at 85c. per cu.yd These quotations are for full cargo lots of 500 cu.yd., delivered alongside of docks, New York.

Portland Cement—Business particularly in the Eastern cement manufacturing zones has showed an increase of fully 50% over November, 1914, although during that period of last year business was not normal. Prices are still holding very stiff, and some of the mills are so far sold up that they are not soliciting orders for 1916 business. Prices are as follows:

New York	$1.27	Milwaukee	$1.48
Jersey City	1.21	Minneapolis	1.58
Boston	1.42	St. Paul	1.58
Chicago	1.31	Duluth	1.56
Pittsburgh	1.41	Peoria	1.39
Cleveland	1.45	Cedar Rapids	1.50
Detroit	1.40	Davenport	1.40
Indianapolis	1.44	Denver	2.28
Toledo	1.44	San Francisco	2.30

The above prices are exclusive of package and for carload lots f.o.b. cars at places named. To contractors 45c. is added to the above figures, including charge for buying. To dealers 40c. is added to the above figures.

Bluestone—During the early part of the month there seemed to be a great deal of price cutting among the different dealers which to some extent was brought about by close competition. Greater efforts were made by some of the important dealers to get new customers, and as a result this necessitated some price cutting in order for some of the interests to retain their present customers. The outlook at present is more optimistic than a month ago, and business has shown considerable improvement. At present prices are more firm than in the past few months, and are as follows:

Bronx flagging 17c. per sq.ft.; Manhattan, 18c. per sq.ft.; curbing, 5x16 in., 40c. per lin.ft.; 5x20 in., 45c. per lin.ft.; sewer bottoms, 5x5 ft. by 3 in., 25c. per sq.ft.; Belgian bridging, 5x24 in., 65c. per lin.ft.

Crushed Stone—Business still continues good; prices holding about the same as a month ago. For 1½-in., price ranges from 80 to 90c. and on ¾-in. from 90c. to $1. There is an indication of an advance in price if the continued scarcity of barges is not relieved. Most of the deliveries now being made are contracts signed up several months ago, and dealers are experiencing great difficulty in the delivering. Ordinarily, barges could be had for about $6 and now they are very hard to get for $10, on account of so many of the railroads storing freight on them, waiting for steamers to arrive. Dealers in the Boston report practically the same prices, together with the same difficulties in delivering.

IRON AND STEEL

Pig Iron—With production at probably the greatest capacity on record, and new business pouring in at an exceptionally heavy rate, prices have made conspicuous advances several times during the past month. The mills have been strained to such an extent that at present efforts are now being made to construct additions to the shops as well as build new furnaces. Buyers are so eager to place orders that they are offering premiums on the more important contracts. In anticipation of continued activity the United States Steel Corporation has already chartered a number of vessels for the delivery of ore for 1916. Orders now arriving at the mill call for, in some cases, delivery for the second half of the year of 1916. Prices in the Pittsburgh District have advanced $1 per ton. Basic is now selling at $16.25 and Bessemer at $17.95. It is reported that a few sales have been made at higher figures but such sales are unconfirmed. In Chicago, the activity is even more marked than a month ago, and prices have shown decided advances over that period. The following prices are f.o.b. furnace, and for the switching charge the average is 50c. per ton: Northern Foundry No. 1 sells at $18 and No. 2 at $17.50. These prices, of course, are well maintained. In the Birmingham District prices have advanced and the demand for foundry iron is exceptionally good. Southern Foundry No. 2 sells at $13.50 to $14, and No. 1 from $14 to $14.50. These prices are for delivery f.o.b. furnace.

In New York purchases have been more numerous than a month ago and prices have shown a decided advance. Northern Foundry No. 2 plain is now quoted at $17.25 to $17.50. No.

2X at $17.75 to $18. Southern Iron is $18.25 to $18.50 for No. 1 and $17.75 to $18.25 for No. 2 Foundry and No. 2 soft. Cincinnati prices are as follows: No. 2 Southern $16.40 to $16.90, Cincinnati Southern Foundry No. 2 is selling at $16.40 to $16.90. Cincinnati Northern Foundry No. 2 at $17.76 to $18.26.

Track Supplies—Along with the general demand for steel rails and other railroad supplies, the call for spikes has been excessive. Prices have advanced considerably in the past month. One of the most recent orders placed was that by the Erie R.R. calling for 22,000 kegs. Railroad spikes f.o.b. Pittsburgh sell at $2 per 100 lb. for delivery in the first quarter, and small railroad spikes are $2.10 to $2.25. Track bolts now sell at $2.50 per 100 lb. and tie plates at $34 to $35 per ton. Standard section angle bars are selling at $1.50 to $1.75.

Steel Rails—Although most of the larger interests have already placed their orders for 1916 rails, still a number of small orders are being received calling for 300 to 1,000 tons. The demand for light rails is still very good, and the lumbering interests, as well as the coal operators, have placed considerable business with the mills. Standard section bessemer rails are quoted at $1.25; openhearth rails, $1.34; light rails, 8 to 10 lb., $1.60; light rails, 8 lb., $1.49; light rails, 12 to 14 lb., $1.55; light rails, 12 lb., $1.44; light rails, 16 to 20 lb., $1.50; light rails, 25 to 45 lb., 1.45. These prices are per 100 lb. f.o.b. Pittsburgh in carload or larger lots. For less than carload lots 5c. per 100 lb. extra is charged.

Structural Material—Although in the building line the demand for structural material has not been so apparent as during the month previous, the call for structural material has in no sense diminished. Car builders have entered the market and have placed very generous orders. Several advances have been made during the month, but had no effect in curtailing the demand. Mills are about sold up and have been postponing deliveries in a great many cases. Prices, as a result of course, are very steady, and beams and channels up to 15 in. are quoted at $1.70 f.o.b. mills. For prompt deliveries 2c. and over has been paid. The above quotation includes beams up to 15 in., channels 3 to 15 in., and angles 3 to 6 in.; tees 3 in. and over. Cutting to specified lengths is charged at the following rates: 2 to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.50. No charge is made for cutting to specified lengths over 3 ft. This price in Chicago is equivalent to $1.89 to $1.99; in Philadelphia, $1.859 to $1.909; in New York, $1.869 to $1.919; in San Francisco, $2.05.

Pipe—Since last month's issue, the price on black pipe has increased 1% and present indications favor a further advance. At present the following prices are firmly held.

On carload lots f.o.b. Pittsburgh the following discounts hold:

	Black	Galvanized
¾ to 2-in. steel, butt welded	78%	63½%
2½ to 6-in. steel lap welded	77%	62½%
7 to 12-in. steel lap welded	75%	58½%

At this rate prices are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.53	4.19	5-in.	34.04	55.50
1-in.	3.74	6.30	6-in.	44.16	72.00
1¼-in.	5.06	8.39	7-in.	59.50	98.77
1½-in.	6.05	10.02	8-in.	62.50	$1.03
2-in.	8.15	12.55	9-in.	86.25	1.43
2½-in.	13.45	21.92	10-in.	$1.03	1.70
3-in.	17.59	28.68	11-in.	1.16	1.92
4-in.	25.07	40.87	12-in.	1.27	2.10

Sheets—The phenomenal demand for black galvanized sheets caused several advances in price during the month and the mills are so well booked with orders that deliveries in most cases are not promised before April. One of the more important factors in this line refuses to quote for delivery prior to August. Quotations given below are for large lots f.o.b. Pittsburgh and small lots New York:

	Cents per Pound—Large Lots Pittsburgh Black	Galv.	Warehouse Delivery New York Black	Galv.
No. 10	2.05	3.25	2.55	....
No. 12	2.05	3.35	2.55	4.15
No. 14	2.10	3.35	2.60	4.15
Nos. 18 and 20	2.20	3.60	2.80	4.40
Nos. 22 and 24	2.25	3.80	2.85	4.55
No. 26	2.30	3.95	2.90	4.70
No. 27	2.35	4.10	2.80	4.85
No. 28	2.40	4.25	3.00	5.00

Cast-Iron Pipe—Quite a number of fair-sized contracts for water pipes have turned up during the month, and several large gas companies have entered the market for considerable supply. Due somewhat to the war business in this country, a number of companies have been forced to make extensions to existing lines. Increased cost of raw materials along with the improvement in business has caused an advance in the price per ton over last month, and in New York we quote carload lots of 6-in. Class B and heavier at $27 per net ton Tidewater; Class A and gas pipe at $28 per ton. Birmingham f.o.b. makers' yard per net ton as follows: 4-in., $23.50; 6-in. and upward, $21.50; gas pipe, $1 per ton extra. In this section it might be noted that the advance has been $1.50 the last month. In the Chicago district the following prices hold per net ton: Water pipe, 4-in., $29; 6-in. and larger, $27; Class A water pipe and gas pipe with an extra charge of $1.

Chain—Due to the advance in the cost of raw materials, the price has advanced 50c. per 100 lb. Business is very good and the following quotations hold firm and steady:

⅜ in.	$8.00	½ and ⅝ in.	$3.50
¼ in.	5.45	⅝ and ¾ in.	3.40
⅜ in.	4.45	¾ and ⅞ in.	3.30
½ in.	3.90	⅞ and 1 in.	3.20
⅝ in.	3.70	1 to 1¼ in.	3.10

The above prices are per 100 lb. f.o.b. Pittsburgh.

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
⅛-in. and ¼-in.	$1.50	$2.00
⅜-in. and larger	1.25	1.75

Triangle Mesh—The call for this material continues and the consequent advance in the price of other metal products caused the general revision in the quotations for this material. As we go to press the following quotations hold steady.

PRICE PER 100 SQ.FT. FOR FOUR-IN. MESH

Style No.	Cross-Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
*4	0.102	$1.14	$1.25	$1.35	$1.46
5	0.077	.90	.99	1.07	1.16
6	0.058	.72	.78	.85	.92
*7	0.041	.56	.61	.66	.71
*23	0.170	1.91	2.09	2.27	2.45
24	0.142	1.64	1.80	1.95	2.11
25	0.124	1.46	1.60	1.73	1.87
*26	0.110	1.33	1.45	1.58	1.70
*27	0.085	1.09	1.19	1.29	1.39
28	0.66	.90	.99	1.07	1.16
29	0.049	.74	.81	.88	.95
31	0.261	2.81	3.07	3.34	3.60
32	0.225	2.44	2.67	2.90	3.13
33	0.196	2.17	2.38	2.58	2.79
34	0.140	1.67	1.83	1.98	2.14
35	0.109	1.33	1.45	1.58	1.70
36	0.075	.98	1.07	1.17	1.26
38	0.380	4.00	4.38	4.76	5.13
*39	0.325	3.45	3.77	4.10	4.42
40	0.283	3.02	3.31	3.59	3.88
41	0.208	2.31	2.52	2.74	2.96
42	0.151	1.75	1.91	2.08	2.24
43	0.101	1.25	1.36	1.48	1.60

*This material is made in regular widths of 18, 22, 26, 30, 32, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars—Concrete Reinforcing—Mills are so busy turning out bars that they are not promising delivery on any new business for at least six or eight months. Over last month the price has advanced 20c., and it is safe to predict from the extraordinary amount of business on hand that a further advance is more than likely to take place. In this respect it is clearly shown that increases in the price does not at all curtail the demand. As we go to press, the following prices are effective:

	Cents per Pound—Mill Shipment Pittsburgh	F.o.b. Warehouse Pittsburgh	Delivered From Warehouse New York
¾ in. base	$1.70	$2.35	$2.35

Wire Rope—The same steady volume of business continues, and prices over the preceding month remain unchanged. On galvanized the discounts are 40 and 2½% off list. On bright they are 55 and 2½%. Special brand brights are selling at 50 and 2½% off list. At these discounts, the net price of wire rope at the mills is as follows:

Diameter in Inches	Price per Foot—Cast Steel	Crucible Steel	Plow Steel
2½	$0.77	$0.92	$1.10
2¼	0.63	0.75	0.88
2	0.51	0.59	0.70
1¾	0.40	0.48	0.57
1½	0.29	0.35	0.41
1¼	0.20	0.25	0.29
1	0.14	0.16	0.19
¾	0.08	0.09	0.11
⅝	0.07	0.07	0.08

Expanded Metal Lath—Business continues very good, the dealers complain that they have more orders than they can fill, on account of the lack of stock. Prices remain the same as last month, but expected increase is due around the first of the year.

Prices for painted are as follows:

Gage	Weight	Carload	1,000 to 5,000	Under 1,000
27	233	$11.44	$12.52	$13.52
26	250	12.47	13.55	14.55
25	300	13.57	14.66	15.66
24	340	14.64	15.75	16.75
22	450	17.54	18.75	19.75

For galvanized cut in sheets, add 6c.

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.; Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 73.9.

Steel Sheet Piling—The price remains unchanged at $1.50 to $1.55 per 100 lb. for base sizes f.o.b. Pittsburgh.

Plates—Demand for plates has been exceptionally good and railroads have placed many orders for cars and locomotives, also shipbuilders have received contracts for vessels which has stimulated business to a great extent. However, a very recent report states that the Pennsylvania R.R. has recently withdrawn its inquiry for 11,000 cars because of the high prices quoted by the builders, who are having difficulty in getting deliveries on car wheels. Plate mills are well filled with orders for the first quarter, and deliveries are now being promised more or less at the convenience of the mills. Plates are nominally quoted at $1.75 per 100 lb., but for early delivery, $1.90 to $2. In Chicago, $1.89 to $1.99 is demanded; in New York, $1.87 to $1.97.

Old Material—The market for old material is exceptionally strong; prices have jumped since the last month and are well maintained. Very heavy sales are being reported and orders are pending calling for large quantities. In New York the improved conditions are very perceptible, and the following prices are being paid to dealers and producers per gross ton in this section:

Heavy melting steel scrap	$12.75 to 13.75
No. 1 railroad wrought	15.00 to 15.25
Stove plate	9.75 to 10.00
No. 1 machinery cast	12.75 to 13.00
Wrought turnings	7.75 to 8.00
Cast borings	7.75 to 8.00
Railroad malleable cast	10.00 to 10.50
No. 2 heavy cast	11.75 to 12.00

In Chicago the offering includes a number of large tonnages, cast scraps and rails, also a considerable amount of car wheels. The consumers show heavy demand for scrap materials and prices have advanced and are well maintained. For delivery at the buyer's works, Chicago and vicinity, including freight transfer charges, the following quotations hold:

Heavy melting steel scrap	$15.00 to 15.50
Old steel rails rerolling	15.25 to 15.50
No. 1 railroad wrought	14.00 to 14.50
No. 2 railroad wrought	13.00 to 13.50
No. 1 cast scrap	13.00 to 13.50
Pipes and flues	10.75 to 11.25
Agricultural malleable	10.50 to 11.00
Railroad malleable	13.00 to 13.25
Cast borings	6.75 to 7.00

Merchant Steel—Warehouse business has been so very good the last month that stocks are pretty well depleted, dealers having some difficulty in placing orders at the mills. As a result, prices have advanced every week in the past month, and the present quotations given below are very firm, and indications forcast further increase. Quotations as given below are the general base prices for small lots in jobber's store:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	2.35
1½ to 4 in. x ⅜ to 1 in	2.35
1½ to 4 in. x ¼ to $\frac{7}{16}$ in	2.55
Burden's bar iron	3.05
Norway bars	4.50
Soft steel:	
¾ to 3 in., round and square	2.35
1 to 6 in. x ⅜ to 1 in	2.35
1 to 6 in. x ¼ and $\frac{7}{16}$ in	2.40
Rods—⅝ and $\frac{11}{16}$	2.45
Bands—1½ to 6 x to No. 8	2.65
Beams and channels—3 to 15 in	2.40
Angles:	
3 in. x ¼ in. and larger	2.40
3 in. x $\frac{7}{16}$ in. and ⅛ in	2.85
1½ to 2½ in. x ⅛ in	2.60
1½ to 2¾ in. $\frac{7}{16}$ in. and thicker	2.50
1 to 1¼ in. x $\frac{7}{16}$ in	2.60
1 to 1¼ x ⅛ in	2.65
Tees:	
1½ to 2½ x ¼ in	2.55
1½ to 2½ x $\frac{7}{16}$ in	2.65
3 in. and larger	2.45

METALS

Copper—A very large business has been done in electrolytic copper in the past month, with a steady increase in price noted. The price of electrolytic the first of November was 18⅛c. against the price of 20c. at the present time. Lake copper was selling at that time for 18¼c. and i snow selling for 20c. Business has been very good up until last week, when the 20c. price went into effect, since which time there has been a little lull. It is interesting to note that a year ago at this time copper was selling at $11.75.

Tin—Tin opened up the first week of November at 36c., with a drop the following week of 2¼c. After that continued buying forced the prices up. Until about the 25th of the month tin was selling at 42c. Since that time numerous reports have heared the market to some extent, and the price is now 40c. per lb.

Lead—The market on lead has been quieter than other metals, with less advance. There has been an advance over last month from 4.9c. to 5¼c., due to large export buying. Domestic trade is moderate, and dealers think that if the continued price holds there is enough incentive for smelters to stock well ahead.

Spelter—There has been a large demand during the past month for spelter, prices showing more of an increase than any of the other metals listed. A month ago this was selling for 14c. and 20c. is now being asked for futures with prompt shipment at 19c., with a very brisk market. At the price at which this is held, it is unprofitable for anybody to buy unless absolutely necessary, and this should curtail the demand enough so that a drop in price ought to be noticed shortly.

OLD METALS—The market is strong. The following are the dealers' purchasing prices in New York:

Copper	Cents per Lb.	Brass	Cents per Lb.
Heavy and crucible	16.50	Heavy	11.50
Heavy and wire	16.00	Light	9.50
Light and bottoms	14.00	No. 1 yellow rod turnings	12.00
Lead		No. 1 red turnings	11.00
Heavy	4.50	Zinc	12.00
Tea	4.25		

MISCELLANEOUS

Asphaltum—The demand still continues very heavy and will continue so until the paving season is finally closed. If the season in the north had not practically closed at the present time, prices would have been advanced on account of the scarcity of Mexican petroleum compared to the phenomenal demand. Business has been better than ever before in this line, and dealers figure that next year will be the largest year in the history of the business. Prices remain $15 per net ton in wooden packages in New York and about $19 in Chicago.

Labor—The market for unskilled labor is in about the same position as it was a month ago, being almost impossible to get men to go away from the cities without extra inducements being offered. Unemployment has dwindled to insignificant proportions, and numerous cities report a paucity of help, which is likely to become more marked as the season advances. A development that is all the more remarkable because at this season outdoor work usually slackens. The price for laborers is $2 a day for an 8-hr. day around New York.

Railway Ties—It is clearly evident that conditions have now reached a turning point. Inquiries now in the market for ties have been received from a great many of the principal roads in the country, and in most cases call for a very good supply for 1916 requirements. The Italian Government very recently appeared in the market for several million feet of yellow pine lumber, and as a result this caused some concern to tie manufacturers. In some cases it is believed that some of the railroads entered the market because of this. The freight situation shows no improvement, and partly as a result prices have advanced. Should business develop at the same rate as it did during the latter part of this month, a revision in the price is more than likely to take place. At present, however, the following prices hold:

First-class standard ties 7x9 in. by 8 ft. 6 in., 77c.; 6x8 in. by 8 ft. 67c. These prices are f.o.b. New York.

Sewer Pipes—Dealers report prices somewhat better in this line than a month ago, and a slight increase in price is noted with a prospect of a future advance. Discounts are as follows:

3 to 24"-80% off list; 27 to 30"-70% off list; on 30 to 36"-65% off list. At this rate prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size	Price	Size	Price
3-in.	$0.05	18-in.	$0.38
4-in.	.05	20-in	.45
5-in.	.08	22-in.	.60
6-in.	.08	24-in.	.65
8-in.	.11	27-in	1.35
10-in.	.16	30-in.	1.65
12-in.	.20	33-in.	2.187
15-in.	.27	36-in	2.45

Flue Lining—Business is increasing and dealers are expecting another increase in price over the one noted in this issue. The present discount being 81% off of list. At this rate prices are as follows:

FLUE LINING—PRICE PER FOOT

Size in In.	Weight in Lb.	Price per Ft.	Size in In.	Weight in Lb.	Price per Ft.
4½x 8½	14	$0.066	8½x13	28	$0.123
4½x13	20	.085	8½x18	45	.17
4½x18	40	.19	13 x13	38	.16
7 x 7	15	.076	13 x18	57	.228
8½x 8½	18	.085	18 x18	75	.38

Glass—Market conditions have improved greatly in the past month, and at the present time large manufacturers claim that business is almost normal. The tendency seems to be to higher prices, and it is expected within a very short time there will be an increase. Prices as follows: Window: Single strength, 1-3 brackets inclusive, B quality, 90% and 30%; single strength, 1-3 brackets inclusive, A quality, 90% and 20%; single strength, above 3d bracket, B quality, 90% and 10%; single strength above 3d bracket, A quality, 90%; double strength, all brackets, B quality, 90% and 20%; double strength, all brackets, A quality, 90% and 10%; single and double strength, AA quality, special prices. Plate, 90% and 40%. Skylight, ¼-in. wire rough or ribbed, 14c. per sq.ft. Boxing on above extra for out-of-town shipment.

Clay Drain Tile—Local dealers in this line are very much pleased at the amount of business they are doing and look to a big increase over present business in the early spring. Prices are as follows:

PER 1,000 SQ.FT.

2 in.	3 in.	4 in.	5 in.	6 in.	8 in.
$17.50	$22.50	$32.50	$47.50	$57.50	$97.50

These prices are in carload lots, f.o.b. New York.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—Bar Harbor & Union River Power Co. plans to build electric line from Bluehill Falls to Brookline and Sedgwick, 14 miles. C. M. Tolman, Bangor, Maine, Ch. Engr.

Maine—Mattawamkeag & Northern Ry. received charter to build line from Mattawamkeag northwest via East Millipocket to Millinocket, 23 miles. Charles W. Mullen and I. B. Wood, Bangor, interested. Noted Nov. 18.

Massachusetts—Bay State Street Railway Co. received franchise from Council to double track line on new river boulevard from Lowell St. to Lawrence Line. R. S. Goff, Boston, Mass., Vice-Pres. and Gen. Mgr.

Massachusetts—Holyoke Street Railway Co. contemplates extending line in South Hadely Falls on West Main St. to Canal St., Canal to Taylor St., Taylor to West Main St. Louis D. Pellissier, Holyoke, Gen. Mgr. and Pur. Agt.

Connecticut—New York, New Haven & Hartford R.R. will expend $17,000,000 for improving its line as follows: Additional electrification to get full benefit of that already done, $1,500,000; trackage, yards and sidings, $3,000,000; improved signals, $1,000,000; rolling stock, $9,000,000.

Pennsylvania—Baltimore & Ohio R.R. Co. contemplates constructing third track from Green Junction to Indian Creek, seven miles. F. L. Stuart, Baltimore, Md., Ch. Engr.

Pennsylvania—Highland Grove Traction Co. contemplates extending line from McKeesport to East Pittsburgh. John M. Lyle, McKeesport, Gen. Mgr. and Pur. Agt.

Maryland—Press reports state that Western Maryland R.R. contemplates double-tracking branch line from Cumberland to Hagerstown in spring. H. R. Pratt, Baltimore, Ch. Engr.

Virginia—Surveys completed and right-of-way secured by Norfolk, Washington & New York R.R. for line from Newport News, Va., to Washington, D. C., 159 miles, with branch line down Northern Neck, 50 miles. Channing W. Ward, Richmond, Va., Pres.

West Virginia—Baltimore & Ohio R.R. Co. will double-track its line from Fairmont to Wheeling, 77 miles. Estimated cost between $3,500,000 and $4,000,000. F. L. Stuart, Baltimore, Md., Ch. Engr.

West Virginia—Pond Fork Railway will award contract about Jan. 10 for 15-mile railway from Madison. According to press reports Cole & Crane will build several miles of logging road as an extension of Pond Fork Railway. F. I. Cabell, Richmond, Va., Ch. Engr. Noted Sept. 23.

North Carolina—Surveys being made for extension of line of Watauga & Yadkin River R.R. from Darby, N. C., to Rogers Mills, eight miles. H. C. Landon, North Wilkesboro, Gen. Mgr. Noted Sept. 16.

Florida—Pensacola, Mobile & New Orleans R.R. sold bonds to complete its line from Pensacola to Mobile, Ala., about 17 miles. Henry McLaughlin, Pensacola, Fla., Pres.

Tennessee—New Orleans, Mobile & Chicago R.R. contemplates extending line from Middleton to Jackson, Tenn. B. V. Wright, Laurel, Miss., Ch. Engr.

Tennessee—Tennessee Power Co., Chattanooga, plans to electrify six miles of its railroad from Parksville which connects with Louisville & Nashville R.R., near Shelton. F. W. Hoover, Chattanooga, Tenn., Gen. Mgr.

Indiana—Plans being considered for building electric railway from Washington and Linto via Bicknell, Frelandville, Pleasantville and Dugger. A. L. Brocksmith, Bicknell, interested.

Illinois—Blue Island Commercial Club, Riverdale Improvement Association, Dolton Civic Club, West Hammond City Club and the Hammond Chamber of Commerce, Chicago, interested in construction of railway from Calumet Park to State Line St., West Hammond.

Illinois—J. W. Kendrick in a report to Directors of Chicago, Rock Island & Pacific Railway recommended expenditure of $27,000,00 during next three years for rehabilitation of line. C. A. Morse, Chicago, Ill., Ch. Engr.

Illinois—Illinois Central R.R. will build double track line from Grayville to Metropolis, about 100 miles. A. S. Balwin, Chicago, Ill., Ch. Engr.

Iowa—Citizens of Sioux City plan to build interurban railway from Sioux City, Iowa, to Mitchell, S. D. Estimated cost, $1,500,000.

Iowa—Ft. Madison Street Railway Co. will rehabilitate its lines. Estimated cost, $50,000. D. A. Morrison, Ft. Madison, Pres., Gen. Mgr. and Pur. Agt.

Minnesota—Preliminary surveys being made for spur track from Steelton to Morgan Park for Spirit Lake Transfer Ry. Co., New Duluth, Minn.

Kansas—It is reported that Arkansas Valley Interurban Ry. Co. is considering plans to extend line from Wichita to Eldorado. Charles D. Bell, Wichita, Kan., Secy., Supt., Pur. Agt. and Ch. Engr.

Kansas—Wichita R.R. and Light Co., Wichita, plans to build line on East 13th St. D. I. Hayworth, Wichita, Ch. Engr.

South Dakota—Duluth, Huron & Southern Ry. plans to build line from Huron, S. D., to Duluth, Minn. G. W. Morrow, Sisseton, S. D., Vice-Pres.

South Dakota—South Dakota Packing and Shipping Co. will build spur track from Great Northern R.R. into yards of plant at Watertown.

North Dakota—Minneapolis, St. Paul & Sault Ste. Marie Ry. plans to build line from Max to Minot. C. N. Kalk, Minneapolis, Minn., Ch. Engr.

Montana—Great Northern Ry. Co. contemplates building a line from Scobey to Glentana, 50 miles, during 1916. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Missouri—Benjamin F. Bush, receiver for Iron Mountain R.R. and Missouri Pacific Ry., authorized to expend [illegible] new steel rails $175,000 for Iron Mountain R.R. and $53[illegible] for Missouri Pacific Ry. and $273,000 to improve road and equipment of both systems. E. A. Hadley, St. Louis, Ch. Engr. Missouri Pacific Ry.

Arkansas—Pine Bluff & Northern Ry. plans to build extension to line from Cullor, Ark., to Pine Bluff, 35 miles. E. C. Buchanan, Little Rock, Ark., Ch. Engr.

Texas—A. T. Perkins, 401 Locust St., St. Louis, Mo., Pres. Marshall & East Texas Railway interested in construction of railroad from Paris to New Orleans.

Texas—Street railways of Dallas contemplate building loop around block surrounded by Jefferson, Jackson, Houston and Young St. to provide service to union terminal stations. Edward T. Moore, Dallas, Mgr. of Dallas Consolidated Electric Street Railway Co., Rapid Transit Railway Co. and Metropolitan Electric Street Railway Co.

Texas—Proposition being considered for building gas-electric interurban railway from Buena Vista to connect with Orient R.R. and run northwest up Pecos Valley 25 miles. Pecos Valley R.R. Association interested. V. L. Sullivan, Chn.

Texas—Press reports state that Southern Traction Co. plans to extend line from Waco south to Austin, about 100 miles, thence to San Antonio, 82 miles. R. B. Stuchter, Dallas, Tex., Gen. Mgr. and Luther Dean, Dallas, Ch. Engr.

Colorado—It is reported that the business men of Tulsa, Okla., plan to build railway from Colorado Springs east to Ordway and Garden City, Kan., and from Garden City, Kan., to Tulsa, Okla.

Idaho—Sandpoint & Interurban Railway Co., Ltd., will improve its line and build spur track to Great Northern Railway Depot. A. Filson, Sandpoint, Idaho, Pres., Gen. Mgr. and Pur. Agt.

Washington—Bellingham & Northern R.R. plans to extend line from Goshen, Wash., to Welcome, 11 miles. E. O. Reeder, Seattle, Wash., Ch. Engr.

Washington—Merrill & Ring Lumber Co., Everett, contemplates building logging railway from mouth of Pysht River in Clallam County. Estimated cost, $250,000.

Oregon—Southern Pacific Co. plans to electrify line from Whiteson to Corvallis, 43 miles. W. Hood, San Francisco, Calif., Ch. Engr.

New Brunswick—Department of Railways and Canals, Ottawa, will complete portion of St. John & Quebec Ry. (Canadian Government Railways), from Georgetown to Centerville. C. B. Brown, Moncton, N. B., Ch. Engr.

Quebec—Quebec Central Ry. contemplates extending line from English Lake, Que., to point in township of Dicone, L'Islet County, about 25 miles. J. H. Walsh, Aherbrooke, Que., Gen. Mgr.

Ontario—Plans being considered for hydro-radial railway from Petrolia to Chatham.

Ontario—Grand Trunk Ry. authorized to build sidings and spurs across number of highways in village to premises of Port Credit Land Co., Ltd. H. R. Safford, Montreal, Que., Ch. Engr.

Ontario—Plans being prepared for extension of line of London & Lake Erie Railway and Transportation Co. from Lambeth to Delaware. W. N. Warburton, London, Gen. Mgr. and Pur. Agt.

Alberta—Grand Trunk Ry. authorized to build railway spur for Great West Coal Co., Ltd., in northeast quarter of Section 6 and southeast quarter of Section 7-53-23, North Alberta. H. R. Safford, Montreal, Que., Ch. Engr.

Bids In and Contracts Awarded

Ohio—Contract for double-tracking line of Cincinnati, Hamilton & Dayton Ry. from Dayton to Cincinnati awarded to FERGUSON & EDMONSON, Pittsburgh, Penn. F. L. Stuart, Baltimore, Md., Consult. Engr.

Utah—Salt Lake & Utah R.R. awarded contract to WASATCH CONSTRUCTION CO. for grading of extension from Spanish Fork to Payson. Noted Nov. 11.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Framingham—Edison Electric-Lighting Co., Boston, has applied for permission to place its wires underground in the business section. Estimated cost, $40,000.

Conn., Hartford—Connecticut Power Co., New London, has applied for a permit to enlarge its power house on Commerce St. Estimated cost, $197,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., North River, until 10 a.m., Dec. 6, for furnishing and delivering boiler tubes.

N. Y., Tonawanda—General Electric Co., Buffalo, will build power plant at Tonawanda. Estimated cost, $2,000,000. C. R. Huntley, Pres.

Penn., Brackenridge—Municipal electric-lighting system will be installed in Brackenridge. S. B. Martin, Pittsburgh, Consult. Engr.

Md., Frederick—City Council considering plans for enlarging municipal electric-light plant. Estimated cost, $103,000. C. L. Reeder, Baltimore, Consult. Engr.

W. Va., Thurmond—Mt. Hope Electric Power and Water Co., Mt. Hope, has applied for permission to install and operate electric-light, water and sewer systems in Thurmond.

N. C., Statesville—An electric transformer station will be built at Statesville by Southern Power Co. of Charlotte.

Miss., Boonville—See item under "Water Works."

Miss., Clarksdale—Bids will be received by City Commissioners until Dec. 14 for furnishing equipment for improving power plant.

La., Church Point—Citizens plan to hold election to vote on bonds for electric-light plant and water system.

Ky., Mater—Electric-light system will be installed in Mater by Wiley W. Gibson.

Ohio, Cleveland—City Council authorized an expenditure of $75,000 for extending cable of municipal electric-light plant.

Ohio, Massillon—Massillon Electric and Gas Co. plans to improve its plant on Erie St. Estimated cost, $100,000.

Ohio, Salem—Municipal Service Co., Philadelphia, Penn., plans to take over the plant of the Salem Electric-Light and Power Co. and the Columbiana County Electric-Light and Power Co., Salem. Company contemplates an expenditure of $100,000 for improvements. H. T. Hartman, Philadelphia, Pres.

Ohio, West Salem—F. L. Berry has purchased electric-light franchise and system at $4,400.

Ind., Terre Haute—See item under "Buildings."

Ill., Galesburg—See item under "Water Works."

Wis., North Milwaukee—A. O. Smith Co., 27th St. and Keefe Ave., will soon award contract for boiler house. Estimated cost, $35,000.

Iowa, Clarinda—Clarinda Electric Light Co. will build power plant. Estimated cost, $80,000.

Iowa, Ft. Dodge—Citizens voted to issue $100,000 bonds for power dam in Des Moines River in connection with hydro-electric power plant for Ft. Dodge. Noted Oct. 14.

Iowa, Imogene—Plans for electric-light system in Imogene being considered.

Iowa, Low Moor—City plans to install electric-lighting system. Bonds for $4,500 authorized for this purpose.

Minn., Montrose—Plans being considered for electric-light system.

Minn., Rochester—(Official)—Bids will be received by Public Utility Board until 10 a.m., Dec. 6, for furnishing equipment for new power plant. Charles L. Pillsbury Co., Minneapolis, Minn., Engr.

Kan., Coffeyville—Election will soon be held to vote on $20,000 bonds for improving municipal electric-light plant.

Neb., Dixon—Election will soon be held to vote to issue bonds for electric-lighting system.

S. D., Chancellor—Press reports state that municipal electric-light plant will be installed in Chancellor.

S. D., Mitchell—Mitchell Street & Suburban Ry. investigating water power at Great Bend, 78 miles north of Mitchell, with view of installing power plant to supply electricity to proposed railway and surrounding towns.

Wyo., Cheyenne—An expenditure of $50,000 planned by Western Power Co., owner of Cheyenne Light, Fuel and Power Co., for improvements.

Mo., Springfield—Election will be held Jan. 11 to vote on $400,000 bonds for electric-light plant.

Okla., Heavener—Bonds for $20,000 voted by citizens for electric-light plant.

Okla., Shamrock—Plans being considered by Sapulpa & Oil Fields R.R. Co. to install electric-power plant to furnish electricity for operating machinery in oil fields and for railroad use.

Colo., Frederick—Citizens contemplate municipal electric-light plant.

N. M., Santa Fe—Plans of Rio Grande Light, Heat and Power Co. for raising dam in White Rock Canyon to furnish current to Albuquerque, Santa Fe, Las Vegas and other points approved by James A. French, State Engr. Estimated cost, $650,000.

Idaho, Arco—Public Utilities Commission granted franchise to Richard W. Ferris to build and operate electric-light and power plant and water system in Arco. Noted Nov. 25.

Ariz., Miami—Election will be held Dec. 14 to vote on $12,500 bonds for municipal gas plant.

Ariz., Miami—Election will be held Dec. 14 to vote on $40,000 bonds for municipal electric-light plant.

Wash., Woodland—North Coast Power Co. plans to build power line from Woodland to Vancouver.

Ore., Albany—Franchise has been granted William Hoeflich to install and operate electric-light plant in Albany.

Calif., Newport—Board of Trustees considering installation of gas distributing system. Estimated cost, $30,000.

Ont., Forest—Town Council contemplates installing hydro-electric lighting and power system. R. Karr, Clk.

Bids In and Contracts Awarded

R. I., Providence—(Official)—Contract for heating system in new school at Cole and Luzon Ave. awarded to WILLIAM E. DOHERTY, Providence, at $14,025.

N. Y., Buffalo—Fitzpatrick & Hoepfner at $67,500, submitted lowest bid for heating and power work, and Bison Electric Co., at $22,900, for electrical work at Buffalo State Hospital. Noted Sept. 16 and Oct. 28.

N. Y., Utica—Contract for installing ventilating system in Utica Free Academy awarded to MONARCH VENTILATOR CO., New York, N. Y., at $41,000.

S. C., Hartsville—Contract for installing heating plant in Coker College awarded to W. B. GUIMARIN & CO., Columbia, at $17,500.

Ala., Tuscaloosa—Contract for completing gas mains for Tuscaloosa Belt Railway and Utilities Co. awarded to MUNICIPAL ENGINEERING AND CONSTRUCTION CO., Atlanta, Ga. Estimated cost, $12,000.

La., New Orleans—Bids were received by Dock Board for underground conduits, wiring, etc., at municipal dock as follows: Marks Electric Construction Co., $21,690, Barnes Electric Construction Co., $21,700, W. A. Dilzell, $26,900. Ford, Bacon & Davis, Engr.

Wis., Bloomington—GLOBE ELECTRIC CO., Milwaukee, awarded contract for electric-light plant in Bloomington.

BRIDGES

Proposed Work

Mass., Salem—Plans being considered by County Commissioners for rebuilding Essex bridge across Danvers River between Salem and Beverly.

N. Y., Lancaster—(Official)—Bids will be received by F. H. Maute, Town Clk., until 3 p.m., Dec. 15, for two bridges in Transit Rd. between Lancaster and Cheektowga.

N. Y., Silver Creek—Two concrete bridges will be built in Silver Creek. Estimated cost, $14,500.

N. J., Highlands—Plans being prepared for bridge across Shrewsbury River at Highlands. Estimated cost, $35,000.

N. J., Newark—State Board of Commerce and Navigation is negotiating with Central R.R. of New Jersey for construction of new bridge over Newark Bay between Elizabeth and Bayonne.

N. J., New Gretna—Bridge will be constructed across Mullica River by Atlantic and Burlington Counties. Estimated cost, $80,000.

Penn., Bowmanstown—Lehigh Valley R.R. will build bridge across Lehigh River at Bowmanstown.

Penn., Erie—(Official)—Bids will be received by State Highway Department, Harrisburg, until 10 a.m., Dec. 15, for bridge near Kearsarge, Erie County.

Penn., Harrisburg—(Official)—Bids will be received by State Highway Department until 10 a.m., Dec. 7, for bridge across Four Mile Creek, Harborcreek Township, Erie County.

Penn., Philadelphia—City will build three reinforced-concrete bridges. G. S. Webster, Engr., Dept. of Public Wks.

Penn., Phoenixville—Bids will be received by County Commissioners, Norristown, until Dec. 11, for reinforced-concrete bridge over Schuylkill River. B. H. Davis, Consult. Engr., Whitehall Bldg., New York, N. Y.

Penn., Sunbury—(Official)—Bids will be received by Samuel B. Rambo, Supt. of Pub. Grounds and Bldgs., Harrisburg, until 2 p.m., Dec. 14, for 175-ft. steel truss bridge at Sunbury. G. A. Flink, Harrisburg, Engr.

Ga., Roswell—Commissioners of Cobb County, Marietta, will build steel bridge across Chattahoochee River at Roswell. Estimated cost, $6,000. Noted Oct. 28.

Fla., Ft. Lauderdale—See item under "Streets and Roads."

Ala., Birmingham—Plans being prepared for bridge over Cahaba River on Birmingham and Leeds Highway.

Ala., New Decatur—W. B. Edmundson is interested in a project to build a toll bridge at an estimated cost of $200,000.

Miss., Fayette—Bids will be received by J. C. Shelton, Clk., County Bd. of Superv., until Dec. 6, for steel bridge across Davenport Bayou.

Miss., Grenada—Bids will be received until Dec. 6 by County Supervisors for steel bridge near Leflore.

Miss., Woodville—Bids will be received until Dec. 6 by County Supervisors for three bridges over Buffalo Bayou.

Ohio, Akron—Plans being prepared for bridge across railroad tracks at Forge St. Estimated cost, $100,000, $75,000 of which will be paid by railroad company and $25,000 by city.

Ohio, Cleveland—Bids will be received by E. B. Krause, Clk. Bd. of Comrs. of Cuyahoga County, until 10 a.m., Dec. 8, for bridge work as per Report No. 3654.

Ohio, Dayton—Bonds for $115,000 voted by citizens for Mad River and Keewee St. bridge.

Ohio, St. Clairsville—(Official)—Bids will be received by B. W. Hopkins, Audr. of Belmont County, until 1 p.m., Dec. 13, for three bridges and one culvert on line of Jenewine Rd. in Wayne and Washington Townships, Belmont County.

Ohio, Warren—Bids will be received by Board of Commissioners of Trumbull County until Dec. 6 for superstructure of South Main St. bridge.

Ind., Evansville—Plans being prepared by Herman Laub, Engr., Pittsburgh, Penn., for bridge across Ohio River about six miles above Evansville. Estimated cost, $550,000.

Ind., Wabash—Bids will be received until Dec. 7 by Board of County Commissioners for Huntington St. bridge.

Mich., Ada—Bids will be received until Dec. 8 by Kent County Road Commissioners for steel bridge across the Grand River at Ada. Estimated cost, $30,000.

Mich., Lansing—Bids will be received by Frank F. Rogers, State Highway Comr., until noon, Dec. 9, for bridge No. 37 and 50.

Ill., Bellflower—(Official)—Bids will be received by R. O. Edwards, County Supt. of Highways, Court House, Bloomington, until 2 p.m., Dec. 18, for steel bridge in Lexington Township.

Ill., Watseka—(Official)—Bids will be received by B. Jordan, County Supt. of Highways, until 11 a.m., Dec. 15, for reinforced-concrete or steel bridge in Douglas Township, Iroquois County.

Ill., Watseka—(Official)—Bids will be received until 11 a.m., Dec. 15, at office of County Superintendent of Highways, for reconstruction of bridge No. 137 between Belmont and Milford Townships, Iroquois County.

Wis., Chippewa Falls—Press reports state that bridge will be built across Chippewa River above Paint Creek dam. Estimated cost, $55,000.

Wis., Prairie du Sac—Plans being prepared by M. W. Torkelson, Bridge Engr., State Highway Comn., Madison, for bridge across Wisconsin River at Prairie du Sac. Estimated cost, $75,000. Noted Nov. 11

Iowa, Epworth—Construction of viaduct being considered by Illinois Central R.R. A. S. Baldwin, Chicago, Ill., Ch. Engr.

Iowa, Iowa City—Iowa City Commercial Club is promoting the construction of a viaduct across the tracks of Rock Island Southern Ry. at College Ave. Estimated cost, $35,000.

Minn., Anoka—See item under "Streets and Roads."

Kan., Ft. Scott—City plans to build concrete bridge across Mormaton River on North National Ave. Estimated cost, $10,000.

Kan., Topeka—City plans to construct reinforced-concrete bridge over Shunganunga Creek on Sixth Ave. Estimated cost, $12,600.

Mont., Hamilton—Bids will be received by F. E. Robbins, Clk., Bd. of County Comrs., until Dec. 6, for destroying and removing old bridge across Bitter Root River east of Florence and building two new bridges across East Fork of Bitter Root River.

Mo., Warsaw—Bids will be received until 1:30 p.m., Dec. 14, by B. R. Burton, Clk. of Benton County, for bridge over Pomme de Terre River, Township 39.

Tex., Clarksville—See item under "Streets and Roads."

Okla., Purcell—An election will soon be held to vote on $100,000 bonds for bridge work in McClain County.

Okla., Vinita—(Official)—Citizens defeated $50,000 bonds for 17 bridges. Noted Nov. 4.

Wash., Pasco—Plans being prepared by C. E. Fowler, Consult. Engr., Central Bldg., for steel bridge across Snake River between Pasco and Burbank. Estimated cost, $50,000.

Bids In and Contracts Awarded

Maine, Kingsfield—SAUNDERS ENGINEERING CO., Portland, at $15,000, awarded contract for reinforced-concrete bridge over Carrabassett River.

Mass., Boston—Bids were received Nov. 22 for concrete bridge over Charles River at North Beacon St. as follows: A. G. Tomasello, 69 Gibson St., Dorchester, $117,352; Fred T. Leyl Co., Springfield, $119,560; Coleman Bros., Chelsea, $124,011. Noted Nov. 11.

R. I., Woonsocket—(Official)—Bids were received Nov. 23 for Hamlet Ave. and Fairmount St. bridge as follows: Hamlet Ave. bridge, E. W. Foley Contracting Co., New York, N. Y., $71,886; Brien & Bouvier, Boston, Mass., $73,152; Bruno & Petitte, Boston, Mass., $90,090; Fairmount St. bridge, Spaulding Construction Co., Suffield, Conn., $21,812; E. W. Foley Contracting Co. ,New York, N. Y., $23,795; E. B. Roberts Construction Co., Pittsfield, Mass., $24,742. Noted Nov. 4.

Conn., Hartford—Contract for reinforced concrete bridges and widening of causeway in Haddam Township awarded to DONAHUE BROS., Middletown, $6,217. Noted Nov. 25.

Conn., Hartford—Contract for concrete bridge on Hartford-Saybrook Turnpike, Chester Township, awarded to JOHN G. HOLBROOK, Westbrook, at $6,165. Noted Nov. 25.

N. J., New Brunswick—Contract for reinforced-concrete bridge over Tennents Brook on South Amboy-Bordentown Turnpike awarded to ERRICKSON & MORRELL, Moyton.

Penn., Allentown—Central of New Jersey awarded contract to PENNSYLVANIA STEEL CO., Steelton, Penn., for fabricating and erecting steel superstructure of new bridges over Lehigh River at Allentown. Estimated cost, $52,500.

Penn., Kennet Square—Contract for stone arch bridge over Red Clay Creek awarded to P. J. McCORMIC & SON, West Chester, at $5,598. Noted Nov. 11.

Penn., Philadelphia—Contract for reinforced-concrete bridge across Ludlow St. awarded to F. W. VAN LOON CO., Philadelphia, at $20,000.

Kan., Pittsburgh—Contract for bridge at West Prairie Ave. awarded to A. JAICKS CO.

Mo., Joplin—(Official)—Contract for viaduct over tracks of St. Louis & San Francisco R.R. on Kentucky Ave. awarded to HORTON CONCRETE CONSTRUCTION CO., 520 Reliance Bldg., Kansas City, at $18,890. Noted Oct. 28.

Okla., Bigheart—Contract for reconstructing bridge awarded to ROCHESTER BRIDGE CO., at $5,995.

Wash., Aberdeen—A. R. EICHLER, Seattle, at $4,355, awarded contract for approaches and false work for repairing bridge across Chehalis River. Noted Sept. 23 and Nov. 4.

Calif., Bakersfield—Robert Sherer Co., Pacific Electric Bldg., Los Angeles, at $13,465, submitted lowest bid for bridges and culverts on Division, 10, Section 7, Bakersfield-Mojave Rd. Noted Nov. 4.

Calif., Los Angeles—Edgar T. Wheeler, at $7,190, submitted lowest bid for bridge across San José Creek on Lemon Ave.

Calif., Sacramento—(Official)—Contract for reinforced-concrete bridge across Myers Creek, Imperial County, awarded to HOLLAND CONSTRUCTION CO., San Diego, at $15,600. Noted Oct. 21 and Nov. 18.

WATER WORKS

Proposed Work

N. Y., Buffalo—An appropriation of $57,599 made by Board of Alderman for improving water system.

N. Y., Red Creek—Surveys being made by H. C. Kittredge, Hydraulic Engr., Rochester, for water system. Estimated cost, $25,000.

Penn., Pittsburgh—Election will soon be held to vote on $7,000,000 bonds, $1,200,000 of which will be used for enlarging and improving water system. R. Swan, Dir. of Pub. Wks.

Md., Somerset—Plans being considered by Somerset Heights Water & Power Co. for improving and enlarging water system.

Va., Newport News—Newport News Light and Water Co. plans new 23-in. supply line from Reservoir toward Oyster Bay.

W. Va., Thurmond—See item under "Light, Heat and Power."

S. C., Charleston—Election will be held Dec. 14 to vote on $1,500,000 bonds for purchase of plant of Charleston Light and Water Co. and $100,000 bonds for improving and enlarging same.

Ala., Cullman—Water mains will be extended about two miles.

Miss., Boonville—Bids will be received by County Supervisors until Dec. 6 for constructing water and light plant.

Miss., Clarksdale—Bids will be received until Dec. 14 by M. W. Purnell, City Clk., for improving water system.

La., Church Point—See item under "Light Heat and Power."

Ky., Winchester—City plans to enlarge water system.

Ohio, Canal Winchester—Bids will be received by G. M. Herbst, Clk., until noon, Dec. 30, for purchase of $12,000 bonds for constructing water system.

Ohio, Wilberforce—Bids will be received by Board of Trustees until Dec. 14, for furnishing materials and improving water supply system.

Mich., Mt. Morris—Press reports state that city contemplates installation of water system. H. W. Graham, interested.

Mich., Quincy—(Official)—We have been informed that plans for water system are not being prepared as stated in our issue of Nov. 4.

Ill., Galesburg—Bonds for $80,000 sold for water system and electric-light plant. Noted Oct. 14 and Nov. 4.

Wis., Milwaukee—City Council has accepted report of committee for extending Linwood Ave. intake water tunnel 2,500 ft. Estimated cost, $500,000. F. G. Simmons, Comr. of Pub. Wks. Noted Aug. 19.

Iowa, Marshalltown—Plans being prepared for addition to municipal pumping station.

Kan., Emporia—Plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for filtration plant, distributing system and other improvements to water system. Estimated cost, $125,000.

Kan., Lawrence—Election will be held March 7 to vote on $175,000 bonds for purchase and improvement of water system. Noted Nov. 4.

Mo., Cape Girardeau—Plans for building intake tower being considered by Missouri Public Utilities Co. of St. Louis. Estimated cost, $25,000.

Mo., Lees Summit—Contract for water system will be awarded about Dec. 15. Estimated cost, $45,000. Henrici, Kent & Lowry Engineering Co., Kansas City, Engr. Noted Sept. 30.

Ark., Beebe—Bids will be received about Jan. 1 for water system. Estimated cost, $15,000. Noted Oct. 7.

Ark., Gravette—Plans being considered by City Council for improving municipal water system and electric light.

Tex., Denton—Bids will soon be received for 4,000-ft. of water pipe and one mile of sewer pipe.

Tex., Houston—David Fitzgerald, City Water Comr., will drill artesian wells, install pumps and build pumping house for North side auxiliary water plant and connect water pipe from new plant to city mains through Glen Park and North Main St. Estimated cost, $35,000.

Tex., Mart—City will issue $18,000 bonds for water-works extensions. J. L. Vaughn, Mayor.

Tex., Trinity—H. S. Wilder, Consult. Engr., Houston, will prepare plans and submit report estimating cost of complete water system.

Okla., Clinton—Election will be held to vote on bonds for $6,000 for extension of water works system.

Okla., Tulsa—Election to vote on $600,000 bonds for storage basin at mouth of Shell Creek postponed from Nov. 23 to Jan. 2. Noted Nov. 4.

Idaho, Arco—See item under "Light, Heat and Power."

Idaho, New Plymouth—City Council has received petition from R. S. White, Pres. of New Plymouth Water Co. for permission to build and operate water system in New Plymouth.

Utah, Aurora—Installation of municipal water system under consideration.

Utah, Centerville—Election will soon be held to vote bonds for municipal water system.

Ariz., Flagstaff—Coconino Water Development and Stock Co., recently incorporated with $100,000 capital stock, plans to develop a supply of water on the slope on San Francisco Peak, near Flagstaff, and to distribute it by means of a pumping plant and pipe line to all stations on Atchison, Topeka & Santa Fe R.R. between Ashfork and Angel, also to tourist resorts on rim of Grand Canyon. C. H. Spencer, interested.

Ariz., Miami—Election will be held Dec. 14 to vote on $80,000 bonds for water system.

Calif., Azusa—City has retained F. E. Trask, Engr., Union Oil Bldg., Los Angeles, to prepare plans for municipal water system.

Calif., Richmond—(Official)—J. H. Dockweiler, Engr., retained by Richmond Water Commission to submit a report on a most suitable water system for city.

Calif., Whittier—Plans will be prepared by F. C. Roberts, Engr., Marsh-Strong Bldg., Los Angeles, for water and distributing system. Estimated cost, $100,000.

Que., Montreal—City plans to enlarge and improve water system. M. Cote, City Comptroller.

Que., St. Hyacinthe—Bids will be received until Jan. 11 by Hector Cadieux, City Engr., for mechanical gravity filter plant.

Ont., Cornwall—Plans being considered by Town Council for extending water mains and installing pump. Estimated cost, $25,000. J. E. Harkness, Clk.

Ont., Dryden—Town Council contemplates water system. R. S. McKenzie, 1002 Union Trust Bldg., Winnipeg, Man., Consult. Engr.

Ont., Galt—City plant to install two motors in electrical pumping plant at water-works. Estimated cost, $5,000.

Bids In and Contracts Awarded

Mass., Lynn—Contract "A" for Ipswich River pumping station awarded to BAY STATE DREDGING AND CONTRACTING CO., Boston, at $11,263; Contract "C" for De Laval pump to POWER EQUIPMENT CO., Boston, at $11,995. Noted Oct. 21 and 28.

N. Y., Syracuse—Contract for intake pipe at Onondaga Lake for Solvay Process Co. awarded to GREAT LAKES DREDGE AND DOCK CO., Buffalo, at $200,000.

N. J., South Orange—Contract for laying water mains in Audley St. and Montague Pl. awarded to DOMINICK MERCANDANTE.

La., White Castle—Contract for installing water system awarded to AMERICAN CAST IRON PIPE CO., Birmingham, Ala. Noted Sept. 2.

Ohio, Cincinnati—Contract for concrete water tanks in Kennedy Heights awarded to FERRO CONCRETE CONSTRUCTION CO., at $168,747. Noted Oct. 14.

Ohio, Cleveland—Contract for boiler foundations for filtration plant awarded to F. W. MARK CO., Leader News Bldg. Estimated cost, $4,500.

Ohio, Cleveland—Contract for two 60-in. water mains at Division Ave. Pumping Station awarded to HOAG & ZULLO CO.

Ill., West Frankfort—(Official)—Contract for municipal water system awarded to CHARLES S. LAIM, St. Louis, Mo., at $83,000. Noted Nov. 11.

Iowa, Boyden—Contracts for water system awarded as follows: ADNA DOBSON, Lincoln, Neb., at $5,563, for pipe line; DES MOINES BRIDGE AND IRON CO., Des Moines, at $2,650, for tower and tank; WARD & WEIGHTON, Sioux City, at $1,528, for pump house and drill well; FAIRBANKS, MORSE CO., Chicago, Ill., at $610, for pump and engine.

Minn., Duluth—Contract for 5,000-ft. 1¼-in. and 1,000-ft. 1¼-in. galvanized iron pipe awarded to DULUTH PLUMBING SUPPLIES CO.

Tex., Beaumont—Contract awarded to SPENCE & HOWE CONSTRUCTION CO. for water mains across Neches River. Estimated cost, $10,800.

Tex., Ft. Worth—Contract awarded to HEDGES CONSTRUCTION CO., Springfield, Mo., for completing West Fork Reservoir and constructing sewage-disposal plant. Estimated cost, $172,000. Noted Oct. 14.

Ont., Berlin—City Council awarded contracts for water system as follows: CANADIAN-ALLIS-CHAMBERS CO., LTD., King St., W. Toronto, at $4,492, for pumping machinery; GARTSHORE-THOMPSON PIPE AND FOUNDRY CO., Stuart St., W., Hamilton, at $7,074, for piping; KERR ENGINE CO., Walker Rd., Walkerville, for valves.

SEWERS

Proposed Work

Mass., Lynn—City plans an expenditure of $50,000 for improving sewer system.

N. Y., Batavia—Citizens voted $17,000 bonds for repairs to sewer pumping plant.

N. Y., New York—(Borough of Manhattan)—Bids will be received Dec. 8 for repairs to barrel sewers under pier at foot of 36th St. and North River.

N. Y., New York—(Borough of Queens)—(Official)—Bids being received for sewers and catch basins in Willard and Hatch Ave., Woodhaven, about 1,600 ft. Louis Englehardt, Willard Ave., in charge.

N. Y., Wappinger Falls—City will vote for bond issue of $15,000 for completion of sewer system.

N. J., Hackensack—(Official)—Bids will be received by M. Demarest, Pres. of Hackensack Improvement Comn., Municipal Bldg., 346 State St., until 8 p.m., Dec. 6, for sewers in Passaic and State St.

N. J., Ridgefield Park—Bids will be received by H. F. Ayers, Chn. of Bd. of Village Comrs., until Dec. 7, for sewer system in West View Section.

Md., Baltimore—Bids will be received until Dec. 8 by Board of Awards, City Hall, for lateral sewers in District No. 38-A, Sanitary Contract No. 172.

W. Va., Kenova—Bids will be received about Dec. 23 for sewer system. Estimated cost, $55,000. Oliver & Maupin, Huntington, W. Va., Engr. Noted Nov. 18.

W. Va., Thurmond—See item under "Light, Heat and Power."

Fla., Ft. Myers—Citizens did not vote $25,000 bonds for improving sewer system as was noted in the issue of Nov. 25.

La., Donaldson—A. W. Jackman has applied to City Council for franchise to install sewerage system in Donaldson.

Ky., Lexington—Plans will be prepared for sewage disposal plant and sewer in North Main St. Estimated cost, $350,000. J. White Guyn, City Engr.

Ky., Owensboro—Contract for sewer system will be awarded about Jan. 15. Citizens recently voted $250,000 bonds for this purpose. Noted Oct. 21 and Nov. 18.

Ohio, Brewster—City will install sewer system. Estimated cost, $10,000.

Ohio, Cuyahoga Falls—Bids will be received by W. F. Williston, City Clk., until Dec. 14, for sewer construction. Estimated cost, $20,000. R. W. Pratt, 708 Hippodrome Bldg., Cleveland, Consult. Engr.

Ohio, Troy—Bids will be received by C. F. Rannells, Audr., until noon, Dec. 11, for purchase of $21,500 bonds for sewer construction.

Ind., Ft. Branch—Construction of sanitary sewer system and purification plant under consideration. Estimated cost, $15,000.

Ind., Greencastle—Plans being considered for sewage purification plant and sewer from Greencastle to Big Walnut Creek.

Ind., Vincennes—Plans being prepared for storm sewers in eastern and southeastern part of city. Estimated cost, $150,000. H. T. Watts, City Engr.

Mich., Flint—No bids were received for sanitary sewers in Wilcox St. from Flint River to Glenwood Ave. and in Decker St. from Cleveland Ave. to Poplar St. Work will be done under supervision of City Engineer.

Mich., Grand Rapids—Grandville Avenue Improvement Association interested in a project to secure sewer system for south and sauthwestern section of city. Estimated cost, $250,000.

Mich., Harbor Beach—Bids will be received by W. A. Trescott, City Clk., until 8 p.m., Dec. 8, for sanitary sewer system and disposal plant. R. W. Roberts, Saginaw, Engr.

Ill., East St. Louis—City plans an expenditure of $50,000 for repairing sewers. Work will be done under supervision of City Engineer.

Wis., Randolph—Citizens plan installation of sewerage system. Estimated cost, $15,000.

Iowa, Clinton—City contemplates sewers in Districts Nos. 7 and 8. J. G. Thorne, City Engr.

Iowa, Dubuque—City Council will construct 8-in. tile pipe sanitary sewer in St. Ambrose St. from present manhole at intersection of Willow and St. Ambrose St.

Iowa, Farragut—Surveys being made for sewer and drainage system. Estimated cost, $4,000.

Iowa, Ft. Madison—Contract will soon be awarded for two miles of sanitary sewers. R. J. Lewis, City Engr.

Iowa, Mason City—City plans to install sewage-disposal plant. Estimated cost, $100,000.

Iowa, Oskaloosa—Bids will soon be received by Black & Veatch, Engr., Kansas City, Mo., for sewer system. Noted Aug. 12 and Nov. 4.

Iowa, Sioux City—Bids will be received by P. J. Wells, City Clk., until Dec. 4, for sewer in Leech Ave. from South Fowler to South Westcott St.

Minn., Belle Plaine—Bids will be received until Dec. 13 for construction of sanitary sewers in Market St. from Minnesota River to Forest St., in Forest St. from Market St. to Meridan St., in Meridan St. from Forest St. to Prairie St.

Minn., Minneapolis—City plans to install two sewers.

Minn., South St. Paul—(Official)—Bids will be received by the City Clerk until Dec. 6 for sewer on Third St. and Third Ave. Estimated cost, $26,000. Contract recently awarded for this work has been ruled invalid. John Fearing, City Engr. Noted Nov. 4.

Minn., Virginia—Plans approved by City Council for construction of sanitary sewer through certain portions of Ridgewood addition.

Kan., Neodesha—Bids will soon be received by Black & Veatch, Engr., Kansas City, Mo., for sewage-disposal plant. Estimated cost, $50,000. Noted Nov. 11.

Neb., Pawnee City—Sewer system will be installed in city. Estimated cost, $35,000.

Neb., Wausa—Bids will be received about Jan. 1 for sewer system and sewage disposal plant. Estimated cost, $12,000. Noted Sept. 23.

S. D., Alexandria—Election will soon be held to vote on bonds to install sewer system.

S. D., Edgemont—Bids will be received by W. S. Wyatt, City Audr., until 8 p.m., Dec. 6, for constructing sewers in District No. 3.

N. D., Mandan—Bids will be received about Jan. 1 for installing drainage system and paving various streets. Estimated cost, $216,000. Black & Griffin, Consult. Engr. Noted Nov. 11.

Ark., Harrison—Sewer system will be constructed. Estimated cost, $65,000.

Tex., Belton—Citizens voted $40,000 bonds for sewer system.

Tex., Dallas—City will build storm sewer estimated to cost $5,000.

Tex., Houston—Ordinances passed by City Council authorizing an appropriation of $51,000 for storm sewers to drain Main St. between tracks of Galveston, Harrisburg & San Antonio Railway and Bellaire Blvd. and an appropriation of $21,000 for storm sewers on Hathaway St. from Baldwin to Crocker St.

Tex., Seguin—City plans installation of sewerage system.

Tex., Uvalde—Plans for proposed sewage-disposal plant submitted to E. R. Benson, City Engr., by N. Werenskiold, Dallas, Consult. Engr.

Tex., Winnsboro—J. D. Carter submitted plans for installation of municipal sewer system.

Okla., Commerce—Plans being considered by city for sewer system. Benham Engineering Co., Oklahoma, Engr.

Okla., Enid—City will build sewer system in three new sewer districts and make extensions in two districts. W. C. Rogers, City Clk.

Ariz., Miami—Election will be held Dec. 14 to vote on $60,000 bonds for sewerage system and sewage-disposal plant.

Wash., Seattle—Bids will soon be received by Board of Public Works for sewer system in Mead St. and 51st Ave. S.

Wash., Seattle—City Engineer has submitted report to Board of Public Works estimating cost of sewers in Fairmount Ave. at $60,893.

Ore., Mt. Angel—City Council has authorized construction of sewer system.

Calif., Auburn—(Official)—Citizens voted $15,000 bonds for extending sewer system. Noted Oct. 22.

Calif., Imperial—(Official)—We have been informed that election to vote on $100,000 bonds for improving sewer and water systems will not be held as stated in our issue of Nov. 11.

Calif., Pasadena—A tract of land comprising about 600 acres east of Coyote Pass, south of Alhambra, has been purchased by cities of Pasadena, South Pasadena and Alhambra to be used as a sewer farm.

Calif., Pomona—Special election will be held Jan 11 to vote on bonds for $15,000 for storm sewers. Noted Nov. 4.

Calif., San Francisco—Bids will soon be received by Board of Public Works for sewer system in South Bay View District. Estimated cost, $55,000.

Que., Montreal—Board of Control contemplates an expenditure of $1,022,320 for sewer work.

Que., Montreal—City plans to install collecting sewer in north of Island. Estimated cost, $500,000.

Ont., Toronto—R. C. Harris, Comr., has recommended the following work to the Board of Control: Sanitary sewers, $13,000; storm sewers, $43,500; asphalt paving, $126,800; asphaltic concrete paving, $4,400; brick block paving, $12,560.

Ont., Toronto—Bids will be received until Dec. 7 by Board of Control for sewer construction.

Man., Assiniboia—Bids will be received until noon, Dec. 6, by Frank Ness, Clk., Kirkfield Park, for constructing lateral sewers on a number of streets.

B. C., Vancouver—Plans for trunk sewer along south side of False Creek from Brewery Creek to China Creek trunk at Seventh Ave. and Keith Drive, will be submitted to Board of Works for approval. F. L. Fellowes, City Engr.

Bids In and Contracts Awarded

Mass., Boston—Contract for sewer pipe awarded to WALDO BROS., INC., Boston.

Mass., Boston—Contract for pipe sewers and drains awarded to M. DE SISTO, 198 La Grange St., West Roxbury, at $4,811.

N. Y., Fairport—Contract for East Church St. intercepting sewer awarded to BISHOP CONSTRUCTION CO., at $4,583.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids were received for improving sewer in Cedar St. between Broadway and Nassau St. as follows: U. S. Drainage and Irrigation Co., $8,523; Lawrence Contracting Co., $9,283; Patrick Riley, $11,237.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for making repairs to barrel and box sewers at 26th St. and North River, 37th St. and East River, 110th St. and East River, 158th St. and North River, Third St. and East River, and Stanton and Rivington St., East River awarded to RIVERSIDE CONTRACTING CO. Noted Nov. 4 and 18.

N. Y., Yorktown Heights—Sewage Disposal and Water Co., Schenectady, at $71,115, submitted lowest bid for sewage disposal plant at Mahonsic State Hospital, and Frederick N. Lewis, New York, at $31,970, for plant at Yorktown Heights Training School for Boys. Noted Oct. 21.

N. J., Atlantic Highlands—Contract for extending sewer system awarded to R. W. SMITH CORPORATION, New York, N. Y. Estimated cost, $15,000.

N. J., Newark—Bids were received by Passaic Valley Sewerage Commission, Nov. 14, for Vailsburg sewers, southwesterly section ,as follows: James A. Christie, Newark, $9,711; Michael Stefanelli, $9,658; Peter D'Amato, Newark, $10,482. Noted Nov. 18.

N. J., Ocean Grove—(Official)—Contract for 10,800-ft. of vitrified pipe sewers awarded to LOGAN CONSTRUCTION CO., 13 Park Row, New York, N. Y., at $8,951. Noted Nov. 11.

Md., Baltimore—(Official)—Lowest bids received for (a) Locust Point Interceptor sewer, Sanitary Contract No. 168, Section 3, (b) Maiden Choice Run trunk sewer, Sanitary Contract No. 167, were as follows: (a) M. O'Harron & Son, $30,517; Smith & Ruggles, $30,824; Whiting-Turner Construction Co., $31,462; (b) Frank Carozza, $13,933; Boyle-Lohmuller Construction Co., $14,870; Whiting-Turner Construction Co., $15,198. C. W. Hendrick, Ch. Engr.

Md., Baltimore—Contract for sewers under Sanitary Contract No. 65 awarded to F. B. BEASMAN & CO., 7 Clay St., Baltimore.

Ohio, Lakewood—(Official)—Contract for sewer in Louis Drive awarded to JOSEPH WINTERBOTTOM, 3274 West 25th St., Cleveland, at $22,000. Noted Nov. 11.

Ohio, Sandusky—(Official)—Contract for intercepting sewer No. 2 awarded to J. B. SHEETS, Pittsburgh, Penn. Noted Nov. 4.

Ind., Indianapolis—Contract for sewer awarded to INDEPENDENT CONSTRUCTION CO., Terre Haute, at $9,500.

Mich., Marquette—Contract for improvement of sewer on Harrison St. awarded ROGER TANSEY.

Mich., Sault Ste. Marie—Contract for sewer work in [illegible] sion St. awarded to EDWARD O'DONNELL, at $5,155.

Iowa, Oakland—(Official)—Contract for 13,500-ft. of sewers to M. A. CAMERY, Harlan, at about $10,000. Noted Oct. 7 and 28.

Minn., Virginia—Contract for lateral sewer in Illinois [illegible] Sixth to Ninth St., awarded to L. W. KELLEY.

N. D., Grand Forks—Contract for lateral sewer No. [illegible] District No. 5, awarded to CARROLL BROS., Grand Forks. Noted Nov. 4.

N. D., Wahpeton—Contract for extending sewers in [illegible] tricts 1 and 3, awarded to AIKEN CONSTRUCTION CO., Fargo, N. D. Noted Oct. 22.

Tex., Houston—Lowest bids received for sewerage work were as follows: Storm sewer on Hawthorne St., F. D. Horton & Son., at $16,883; Smith St. sewer, H. C. Hunter, at $1,[illegible] storm sewer on Bagby and Laure St., Hardman & Nelson, at $13,809.

Idaho, Kellogg—Contract for sewer in Pressley Addition awarded to NELS ERICKSON, Anacortes, Wash. Noted Nov. 4.

Wash., Seattle—Washington Paving Co., at $78,694, submitted lowest bid for sewers in Sixth Ave., N. W. Noted Aug. 12.

Calif., Los Angeles—S. Zarubica, at $7,577, submitted lowest bid for sewer in Pico St. from Grenshaw Blvd. to Sixth Ave.

Ont., Hamilton—BRENNAN & HOLLINGWORTH, Hamilton, awarded contract for sewer in Kenilworth Ave.

GARBAGE

Proposed Work

Penn., Altoona—City contemplates building garbage crematory. George W. Kuebler, Comr. of Pub. Safety. Estimated cost, $25,000.

Ohio, Canton—Council contemplates garbage disposal plant and system of free city collection.

Wis., Madison—Preliminary plans being prepared by F. C. Parker, City Engr., for garbage disposal system for city, including two incinerating furnaces. Estimated cost, $25,000. Noted Oct. 14.

Wis., West Allis—Bids will soon be received by the city for municipal garbage incinerator. Estimated cost, $5,000. E. G. Orbert, Engr.

Bids In and Contracts Awarded

Mich., Detroit—Contract for disposal of city's garbage awarded to DETROIT REDUCTION CO.

Ill., Decatur—Alfs Garbage Co. awarded contract to BOILER EFFICIENCY ENGINEERING CO., 608 South Dearborn St., Chicago, Ill., for garbage incinerator. Estimated cost, $10,000.

STREETS AND ROADS

Proposed Work

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Dec. 6, for regulating and repaving 151st St. from west side of Seventh Ave. to east side of McCombs Pl.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., North River, until 10 a.m., Dec. 6, for repairing pavement on marginal street and piers, North, East and Harlem River.

N. Y., Rockville Center—Press reports state that a boulevard will be constructed from Rockville Center to Long Beach. Estimated cost, $500,000.

Penn., Yardley—Bonds for $10,000 voted by citizens for street improvements.

Va., Richmond—Construction of Northside Blvd. under consideration by City Council. Estimated cost, $500,000.

N. C., Bladenboro—Bonds for $25,000 voted by citizens of Bladenboro Township for road construction.

N. C., Franklin—Bonds for $15,000 for improving a number of roads defeated by citizens of Macon County, Cowee Township. Noted Oct. 28.

N. C., Snow Hill—Bids will be received until Dec. 6 by Commissioners of Greene County for constructing sand clay roads. Estimated cost, $32,500.

Fla., Ft. Lauderdale—Election will be held Dec. 11 to vote on $165,000 bonds for roads and bridges for Broward County. Noted Nov. 11.

Fla., St. Petersburg—City plans to extend and pave Eighth Ave. with brick.

Ala., Bay Minette—Bids will be received until Dec. 14 by Commissioners of Baldwin County for road from Point Clear to Fairhope.

Ala., Birmingham—City plans to pave South 26th St. from Sixth to Eighth Ave. with asphaltic concrete. Estimated cost, $6,400.

Miss., Port Gibson—Plans being considered by Board of Supervisors of Claiborne County to issue $100,000 bonds for about 50 miles of gravel roads.

Tenn., Knoxville—Knox County Roads Commission plans to build a boulevard through Cherokee Purchase.

Tenn., Memphis—Plans being prepared by B. A. Adams, Park Engr., for first stretch of proposed parkway to encircle city.

Ohio, Eaton—City plans to pave Barron and Maple St.

Ohio, Greenville—See item under "Canal Ditches and Irrigation."

Ohio, Hillsboro—Bids will be received until noon, Dec. 13, by Commissioners of Highland County, for purchase of $7,500 bonds for road construction.

Ohio, Sandusky—City plans to pave East Ninth St. from Remington Ave. to corporation line. Estimated cost, $13,370.

Ohio, Troy—Bids will be received until noon, Dec. 11, by C. F. Rannells, Audr., for purchase of $36,700 bonds for street improvements.

Ohio, Washington C. H.—Bids will be received by John McFadden, City Audr., until Dec. 20, for purchase of $5,800 bonds for improving East Court St.

Ind., La Porte—(Official)—Bids will be received in January for about 38,000 sq.yd. of paving. L. D. Goddard, 410 First National Bank Bldg., City Engr.

Ind., Michigan City—Bids will be received until Dec. 14 by Board of Public Works for paving with brick Center St. and Lake Ave.

Mich., Sault Ste. Marie—Bids will be received by H. A. Osborn, County Rd. Comr., until 3 p.m., Jan. 13, for 24½ miles of highway.

Ill., Averyville—Election will be held Dec. 14 to vote on $4,000 bonds for paving Narrows Rd. with brick.

Ill., Elgin—City Council plans to repave Grove St. with brick. Estimated cost, $16,150.

Ill., La Salle—Press reports state that La Salle Commercial Association contemplates bond issue for $1,500,000 for highway improvements.

Ill., Morrison—Press reports state that election to vote $125,000 bonds for road construction in Whiteside County contemplated.

Wis., La Crosse—La Crosse County has appropriated $80,000 for road construction during 1916.

Wis., Madison—City Council appropriated $25,000 to street improvement fund for coming year, making total $150,000.

Minn., Anoka—County plans an expenditure of $31,500 in 1916 for roads and bridges.

Minn., Brainerd—City plans an expenditure of $70,000 in 1916 for road improvements.

N. D., Mandan—See item under "Sewers."

Neb., Lincoln—Two new paving districts formed providing for paving of Tenth St. from E to F St., F St. from Seventh to Tenth St. and Sewell St. from Seventh to 24th St.

Mo., Bolivar—Citizens of Polk County, Bolivar Special Road District, voted $25,000 bonds for road improvements. Noted Oct. 28.

Mo., Poplar Bluff—Commissioners of Butler County contemplate election to vote on $275,000 bonds for road improvements.

Tex., Clarksville—(Official)—Bids will be received by George Morrison, Judge, Red River County, until noon, Dec. 9, for system of highways including bridges, culverts, etc., for Road District No. 1, Red River County.

Tex., Beaumont—Contract for highways between Hardin, Liberty and Jefferson Counties will not be awarded to Hanson Sons, Inc., until the bonds are O. K'd. by the court. Noted Oct. 28.

Tex., Risk—Bonds for $150,000 for road construction defeated by citizens of Cherokee County Road District No. 1. Noted Oct. 28.

Tex., Sweetwater—Election will be held in Nolan County Dec. 18 to vote on $100,000 bonds for road construction.

Tex., Texarkana—Commissioners of Bowie County voted to appropriate $20,000 for improving roads in Precinct No. 1.

Okla., Catoosa—Bonds for $18,000 voted by citizens for road construction. Noted Nov. 11.

Okla., Chelsea—Citizens voted $50,000 bonds for road construction. Noted Nov. 11.

Okla., Claremore—Citizens of Oowala Township voted $30,000 bonds for road construction. Noted Nov. 11.

Okla., Foyil—Citizens voted $25,000 bonds for constructing roads. Noted Nov. 11.

Okla., Inola—Citizens voted $30,000 bonds for road construction. Noted Nov. 4.

Okla., Oolgah—Citizens voted $20,000 bonds for road construction.

Okla., Talala—Bonds for $20,000 voted by citizens for road construction. Noted Nov. 11.

Okla., Wister—Bonds for $45,000 voted by citizens for road work.

Colo., Pueblo—Plans for paving area on north side between Second and Tenth St. being considered. Estimated cost, $20,000.

Idaho, Wallace—City Council plans an expenditure of about $18,000 for paving District No. 4.

Ariz., Globe—Bonds for $350,000 voted by citizens of Gila County for road construction. Noted Nov. 11.

Wash., Olympia—Bids will be received until Dec. 20 by State Highway Commission for constructing 35 miles of Inland Empire Highway.

Calif., Alameda—City plans to pave Central Ave. from Fernside Blvd. to Fourth St. About $100,000 available for this purpose.

Calif., Pasadena—Bids will be received by H. Dyer, City Clk., until Dec. 13, for paving Hillside Terrace.

Calif., Pomona—Election will be held Jan. 11 to vote on $20,000 bonds for improving a number of streets.

Calif., San Francisco—Board of Public Works plans an expenditure of about $25,000 for paving portions of Alison and Bay View St.

Ont., Toronto—See item under "Sewers."

Bids In and Contracts Awarded

Conn., Hartford—Framingham Contracting Co., South Framingham, Mass., at $8,490, submitted lowest bid for native stone macadam road in Weston Township, and Frank Arrigoni & Bro., Middletown, at $6,763, submitted lowest bid for trap rock macadam on Middlefield Rd., Middletown Township.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received for improving (a) 145th St. from west side of Lenox Ave. to east side of Seventh Ave., (b) Columbus Ave. from 96th St. to Cathedral Parkway, (c) 96th St. from Second Ave. to a point east of easterly house line of Lexington Ave., were as follows: (a) (c) Asphalt Construction Co., Madison Ave. and 137th St., New York, at $8,786; (c) W. J. Fitzgerald, 547 West 45th St., New York, at $7,186. Noted Nov. 23.

N. Y., New York—(Borough of Queens)—(Official)—Bids were received Nov. 22 for improving a number of streets and avenues of the borough as follows: Charles A. Myers Contracting Co., $5,331; Peace Bros., 20 Main St., Flushing, $6,672; Frank Chiullia, Belle Harbor, $6,859. Noted Nov. 18.

N. J., Bloomfield—(Official)—Bids were received Nov. 15 for 123,000 lin. ft. of 5-in. by 16-in. bluestone curb and 6,000 lin. ft. combination curb and gutter as follows: Filippone Scanniello, $8,512; C. S. Carracino, $8,957; Robert Doriety, $9,091. Noted Nov. 11.

N. J., Newark—Contract for improving South Orange Ave. from 20th St. to South Orange Village line awarded to GLENFIELD CONSTRUCTION CO., at $87,845. Noted Nov. 18.

N. J., Perth Amboy—Contract for improving Convery Pl. awarded to GRAHAM & McKEON.

Md., Easton—Lowest bids received Nov. 9 for constructing highways by State-Aid were as follows: Contract No. 401, 1.06 miles of shell or macadam or concrete road from Easton to Easton Point, Holt Construction Co., Denton, at $10,603; Contract No. 361, three miles from Easton toward Mathews, Juniata Paving Co., Empire Bldg., Philadelphia, Penn., at $20,199 for macadam, $24,424 for concrete and $16,150 for shell. Noted Nov. 4.

W. Va., Charleston—Contract for 1½ miles of warrenite road in London and Polka District awarded to ATLANTIC BITULITHIC CO., at $36,855. Noted Nov. 11.

N. C., Charlotte—Bids were received Nov. 11 for 17,500 sq.yd. of paving as follows: A. H. Guion & Co., Gastonia, $20,505; J. W. Haas, Charlotte, $21,943; Blankenship & McClelland, Charlotte, $21,050. Noted Nov. 4.

S. C., Greenville—(Official)—Bids were received Nov. 10 for 60,000 sq.yd. of street paving, 10,000 sq.yd. of concrete gutters, and 12,000 lin.ft. of granite curb, (a) sheet asphalt, (b) asphalt concrete, (c) brick, (d) concrete, (e) bitulithic, (f) rocomac, as follows: Noll Construction Co., Chattanooga, Tenn., (a) $111,248; Gulf Paving Co., Chattanooga, Tenn., (a) $105,753, (b) $96,153; Southern Paving and Construction Co., Chattanooga, Tenn., (a) $105,585, (b) $97,785, (c) $140,385; West Construction Co., Chattanooga, Tenn., (b) $97,450; William P. McDonald Construction Co., Mt. Vernon, N. Y., (c) $150,490; F. J. McGuire, Norfolk, Va., (c) $150,560, (d) $112,160, (f) $112,160; Case & Cothran, Atlanta, Ga., (d) $109,128; J. F. Morgan & Co., Attalla, Ala., (d) $110,575, (f) $112,975; Atlantic Bitulithic Co., Boston, Mass., (e) $159,002; R. M. Hudson, Atlanta, Ga., (f) $111,694. Noted Nov. 4.

Fla., Miami—Contract for constructing sidewalks on Ave. D from 20th to 25th St. and Eighth St. and Boulevard awarded to F. L. DE VANE.

Fla., Sarasota—Contract for paving, curbing and guttering awarded to SOUTHERN ASPHALT AND CONSTRUCTION CO., Birmingham.

Fla., Tampa—Contract for paving Hyde Park Pl. awarded to GEORGIA ENGINEERING CO.

Ala., Dothan—Contract for 21 miles of road awarded to BOYD & BRADSHAW and JORDAN & PHILLIPS. Estimated cost, $100,000. Noted Nov. 4.

Tenn., Chattanooga—Contract for paving Chestnut St. from 9th to 10th St. awarded to SOUTHERN PAVING AND CONSTRUCTION CO., at $5,277.

Ky., Lebanon—Marion County Commissioners awarded contract to T. M. ESTES and FORREST WARD, at $13,420, for improving Bradfordsville Pike from Lebanon to Bradfordsville, nine miles.

Ky., Morganfield—Union County Commissioners awarded contract for improving Unionton and Boxville Rds. to COLLINS & PAVY, Mt. Vernon, Ill., at $28,508. Noted Oct. 28.

Ohio, Akron—Contract for paving George Rd. awarded to J. C. DEVINE, Alliance.

Ohio, Cincinnati—(Official)—Contract for improving Summit Ave. in Springfield and Sycamore Township awarded to WILLIAM P. FLYNN, 1252 Chase St., Cincinnati, at $4,744. Noted Nov. 11.

Ind., Indianapolis—Contract for Pleasant Run Parkway awarded to C. C. KING & SON, at $22,986.

Ind., Vincennes—Contracts for gravel roads awarded as follows: Volmer Rd., Johnson Township, to H. F. JONES, Vincennes, at $4,907; Brooks Rd., Vincennes Township, to JOHN E. MILLIGAN, Vincennes, at $3,500.

Mich., Pontiac—Contract for completing concrete road between Kimble's Corners and Birmingham on Detroit Rd. awarded to R. D. BAKER & CO., Detroit, at $62,090. Noted Nov. 25.

Ill., Springfield—Contract for paving Converse Ave. from 11th St. to Michigan Ave. awarded to HENRY MELCH & SON.

Ill., Berwyn—(Official)—R. F. Conway Co., Chicago, at $68,459, submitted lowest bid for paving a number of streets.

Kan., Iola—Contract for paving on South Chestnut St., North Chestnut St. and alley in rear of Physicians & Surgeons Hospital awarded to HANREDDY & ROSS, at $7,000.

Neb., Lincoln—Burke-Cochrane Construction Co. submitted lowest bid for paving of District No. 9. Noted Oct. 7 and Nov. 11.

Mo., Springfield—Contract for 9¾ miles of road in Ingram Special Road District awarded to OTTO CHAPMAN, Strafford, at $22,000. Noted Oct. 21.

Mo., Springfield—Contract for paving awarded to PLUMMER-ADAMS CO., at about $13,500.

Ark., Ravenden Springs—Contract for pike road between city and Ravenden Station awarded to H. C. NIXON, Argenta, at $18,000.

Tex., Eagle Lake—Contractor for graveling streets awarded to F. E. BOOTHE; about $12,000 available for this work.

Tex., Ft. Worth—Contract for paving Sunset, Jarvis and Daggett Ave. awarded to GENERAL CONSTRUCTION CO., Ft. Worth; Fifth Ave. and Jessamine St. to TEXAS BITULITHIC CO., Dallas.

Tex., Georgetown—Contract for 55 miles of gravel and macadam road awarded to J. S. TOBY & CO., Ft. Worth, at $114,000.

Tex., Houston—Contract awarded to HORTON & HORTON, Houston, for paving with Uvalde rock asphalt intersection of Stratford and Connor St. with Lovett Blvd. Estimated cost, $4,500.

Tex., Kountze—Hardin County Commissioners awarded contract to COBB & GREGORY for shell road from Pine Island Bayou to Kountze. Estimated cost, $75,000.

Tex., Livingston—Contract for street improvements awarded to J. G. BROWNE CO., Houston, at $27,600.

Okla., Oklahoma—Contract for paving awarded to WESTERN PAVING CO., Oklahoma, at $29,496.

Okla., Okmulgee—Contract for improving number of streets awarded to PARKS & MORAN, Okmulgee, at $69,853. Noted Oct. 28.

Colo., Del Porte—(Official)—All bids received Nov. 10 for eight miles of State Primary Rd. No. 60 rejected as being too high.

Calif., Sacramento—(Official)—Contract for road work in Sonomo County, Division 4, Route 8, Section A, awarded to BATES, BORLAND & AYER, Oakland Bank of Savings Bldg., Oakland, at $22,183. Noted Oct. 7 and Nov. 4.

Calif., San Francisco—Contracts for paving awarded to FEDERAL CONSTRUCTION CO., at $17,110, for Corbett Ave. between Danvers St. and Caselli Ave., and to C. B. EATON, at $16,408, for Congo St. between Flood Mangels Ave.

Calif., San Gabriel—(Official)—Contract for improving a portion of Las Tunas Drive awarded to M. R. CO., INC., Fernando Bldg., Los Angeles, at $17,930. Noted Nov. 11.

Calif., Santa Monica—Contract for improving Central Ave. from Eighth St. to city limits awarded to NATIONAL PAVING CO., Kansas City, at $50,810.

Calif., South San Francisco—Contract for paving and constructing sidewalks awarded to F. R. RITCHIE & CO., Chronicle Bldg., San Francisco, at $8,074 and $7,883, respectively.

INDUSTRIAL WORKS

Proposed Work

Conn., Hartford—United States Tire Co. contemplates building additions to plant at Allyn and High St. Charles B. Wittlesey, Gen. Mgr.

Conn., New Haven—Revised plans will be prepared by R. W. Foote, 185 Church St., New Haven, Arch., for three-story, 65x75-ft. garage and salesroom for Cowles Tolman. Estimated cost, $30,000. Noted Aug. 12.

Conn., Thompsonville—Biglow-Hartford Carpet Co., 58 Main St., will build two additions to plant in spring.

N. Y., Buffalo—George Miller Spring Tire Co., recently incorporated, will establish factory. W. L. Williams, interested.

N. Y., Buffalo—Schoellkopf Analine Chemical Works, Inc., plans to build addition to plant at 351 Abbott Rd. Estimated cost, $13,513.

N. Y., New York—(Borough of Brooklyn)—(Official)—Plans being prepared by W. T. McCarthy, Arch., 16 Court St., for two-story, 100x100-ft. brick factory on Harrison St. for A. L. Fogel, 534 Myrtle Ave. Estimated cost, $12,000.

N. Y., New York—(Borough of Brooklyn)—Soss Manufacturing Co., 435 Atlantic Ave., will build four-story factory at Grand Ave. and Bergen St. Estimated cost, $60,000.

N. J., Bloomfield—International Arms and Fuse Co. will build addition to its plant. Estimated cost, $80,000.

N. J., Harrison—Plans prepared for three-story brick and steel plant on Fourth St. for Crucible Steel Co., 420 Canal St., New York, N. Y.

N. J., Pompton Lakes—Contract will soon be awarded for building addition to cap works of Du Pont Powder Co. Estimated cost, $100,000. H. K. Babbitt, Supt. of Cap Works.

Penn., Danville—Charles M. Schwab secured control of Danville Structural Tubing Co. and will build steel mill. Estimated cost, $600,000.

Penn., Donora—United States Steel Corporation will improve Donora plants. Estimated cost, $350,000.

Penn., Harrisburg—Plans being prepared by C. H. Kain, Arcade Bldg., for five-story brick and concrete factory at State and Cameron St. for Dauphin Cigar Co. Estimated cost, $40,000.

Penn., Philadelphia—Contract will soon be awarded for four-story, 89x98-ft. brick and reinforced-concrete shop at 18th and Buttonwood St. for Baldwin Locomotive Works, Broad and Spring Garden St.

Penn., Philadelphia—Plans prepared for three-story, 100x100-ft. ice-cream factory at 3333 Ludlow St., for Supplee Alderney Dairies Co. Estimated cost, $35,000. Charles H. Casper, Arch. Noted Nov. 25.

Penn., Pittsburgh—Pittsburgh Gage and Supply Co. will build addition to plant at 13th and Liberty St. Estimated cost, $15,000. W. G. Wilkins Co., Arch.

Penn., Port Carbon—Coxe Traveling Grate Co. plans to enlarge its plant. Estimated cost, $100,000.

Penn., Pottstown—Plans prepared for improvement to plant of McClintic-Marshall Structural Co., which includes factory, office building, 390x618-ft. main shop and installing cranes and hoists. Estimated cost, $1,000,000.

Penn., South Bethlehem—Bethlehem Steel Co. will rebuild plant recently destroyed by fire.

Md., Baltimore—Plans being prepared for two-story garage at 25-33 West Mt. Royal Ave. for W. H. Marcus, 525 Equitable Bldg.

Md., Baltimore—Plans being prepared by C. N. Fiz, Arch., Baltimore, for four-story garage and repair shop at 27 South Charles St. for Mid-City Garage and Motor Supply Co. Estimated cost, $90,000.

N. C., Greensboro—It is reported that American Agricultural Chemical Co., 2 Rector St., New York, N. Y., contemplates building fertilizer factory at Greensboro. Estimated cost, $100,000.

N. C., New Bern—Shops of Norfolk Southern R.R., recently destroyed by fire, will be rebuilt. F. L. Nicholson, Norfolk, Ch. Engr.

Ga., Columbus—It is reported that Hardaway Cargill Co. will build plant at Sixth Ave. and Tenth St. Estimated cost, $100,000.

Ga., Waycross—Ware County Light and Power Co. granted permit by City Council for abattoir and cold-storage plant. Estimated cost, $100,000.

Fla., Tampa—Hillyer & Spearing will remodel building on East Bay St. for warehouse. Estimated cost, $50,000.

Ala., Birmingham—A plant for the manufacture of automobile tires will be constructed in Birmingham. Estimated cost, $500,000. C. E. Frost, Athens, interested.

Ala., Birmingham—Plans prepared for 60x150-ft. bakery for Birmingham Bread Co.

La., Shreveport—Allen Mfg. Co. will build a plant at Shreveport. Estimated cost, $20,000.

Tenn., Chattanooga—Marion Extract Co., Marion, Va., purchased site at Chattanooga and will build plant to manufacture tannic acid from chestnut oak. Estimated cost, $150,000.

Tenn., Columbia—Columbia Ice and Cold Storage Co. will build two-story addition to plant.

Ky., Ashland—Kentucky Solvay Co. contemplates building plant to manufacture dyes from coal by-products. Estimated cost, $150,000.

Ky., Ashland—Plans being prepared for two-story, 50x120-ft. garage for W. B. Whitt & Son, McGlone. J. B. Gieseke, Ceredo, W. Va., Arch.

Ohio, Canton—Canton Clay Products Co., recently incorporated with $75,000 capital stock, plans to build a brick plant about one mile east of Robertville station on Wheeling & Lake Erie R.R.

Ohio, Canton—Globe Motor Car Co. will build four-story, 60x200-ft. salesroom and garage. Estimated cost, $80,000. J. H. Wile, 410 Wick Bldg., Youngstown, Arch.

Ohio, Carthage—(Cincinnati post office)—Contract will soon be awarded for 200x200-ft. addition to plant of Hess Springs and Axle Co. Estimated cost, $40,000. Noted Nov. 25.

Ohio, Celina—Plans being prepared by A. C. DeCurtins, Arch., 503 Opera House Bldg., Lima, for three-story, 60x125-ft. factory for Mersman Bros. & Brandt.

Ohio, Cincinnati—Peters Cartridge Co. will build plant at Kings Mills and Fosters Crossing. Estimated cost, $200,000. Leden & Schilling, Detroit, Mich., Arch.

Ohio, Cleveland—Plans prepared for automobile salesroom for Adams Oakland Co. Estimated cost, $100,000. W. S. Ferguson Co., 1900 Euclid Ave., Arch.

Ohio, Cleveland—East Ohio Gas Co. will build three-story warehouse on Rockwell St. Estimated cost, $12,000. Frank Horneck, Rose Bldg., Arch.

Ohio, Cleveland—Plans being prepared for 12-story addition to plant of William Edwards Co., West Ninth St. W. S. Lougee, Marshall Bldg., Engr.

Ohio, Cleveland—Plans being prepared by Poe Engineering Co., Rockefeller Bldg., for two factory buildings, 75x225 ft. and 75x100 ft., for Horsburgh Forging Co., 5102 Hamilton Ave.

Ohio, Cleveland—Hydraulic Pressed Steel Co. plans to build three additions to plant at 3152 East 61st St. Estimated cost, $50,000.

Ohio, Cleveland—Winton Motor Carriage Co. will build 80x300-ft. addition to plant on Berea Rd.

Ohio, Columbus—Central Ohio Paper Co. will build three-story, 63x120-ft. plant. Estimated cost, $35,000.

Ohio, Dayton—Plans prepared by Peters, Hermann & Brown, Reibold Bldg., for four-story reinforced-concrete plant on Fifth St. for Dayton Pure Milk and Butter Co., 219 East Fifth St.

Ohio, Euclid—White Automobile Co., Cleveland, purchased site at Euclid and will build plant. Plant will be built in sections as business demands. Estimated cost of first section, $200,000. Rolin H. White, interested.

Ohio, Fostoria—Fostoria Light Car Co. will enlarge its plant at Fostoria.

Ohio, Kent—Mason Tire and Rubber Co., Cleveland, secured site at Kent and will build factory. Estimated cost, $60,000.

Ohio, Salem—Andalusia Dairy Co., 105 Ferry St., contemplates building addition to plant. Estimated cost, $40,000.

Ind., Indianapolis—Preliminary plans being prepared by C. B. Comstock, 110 West 14th St., New York, N. Y., for four-story, 98x246-ft. baking plant for Bryce Baking Co.

Mich., Grand Rapids—Plans being prepared by John Ahlschlager & Son, Arch., Chicago, Ill., for two-story plant for Grand Rapids Baking Co. Estimated cost, $60,000.

Mich., Marquette—Nufer Cedar Co. plans to build plant at Marquette. William L. Nufer, interested.

Mich., Muskegon—Continental Motor Manufacturing Co. will build 80x100-ft. plant at Market and Jefferson St.

Mich., St. Johns—Ford Motor Co. will build two-story, 80x100-ft. garage at West Higham and Brush St.

Ill., Champaign—Plans being prepared for plant for Champaign News. Estimated cost, $50,000.

Ill., Chicago—Chicago & Northwestern R.R. will erect grain elevator for Armour Grain Co. at South Chicago. Estimated cost, $2,000,000.

Ill., Chicago—Chicago Nut Co. will build two-story, 100x150-ft. factory at 2513 West 29th St. Estimated cost, $38,000. R. E. Pingrez, Arch.

Ill., Chicago—Fisher Furniture Co. will build three-story factory at 400 North May St. Estimated cost, $25,000. F. E. Danielson, Arch.

Ill., Chicago—Swift & Co. will build six-story soap factory at 42nd and Justine St. Estimated cost, $30,000. B. H. Jilson, 9542 South Seeley Ave., Arch.

Ill., Kewanee—Farmers Elevator Co. will build grain elevator with capacity of 40,000 bu.

Wis., Madison—Plans being prepared by Gardner & Lindberg, Arch., 1130 South Dearborn St., Chicago, Ill., for packing plant for Farmers Co-Operative Packing Co. Estimated cost, $200,000. Noted Nov. 11.

Iowa, Des Moines—Plans being prepared by Proudfoot, Bird & Rawson, Arch., Hubble Bldg., for seven-story, 66x68-ft. building at Fourth St. and Ft. Dodge, Des Moines & Southern R.R. for Charles Hewitt & Son. Estimated cost, $100,000.

Minn., Minneapolis—Chevrolet Motor Co. will build assembling plant.

Minn., Moose Lake—John Keogh Co., Chicago, Ill., will build plant for manufacture of excelsior and wood wool. Estimated cost, $25,000.

Wyo., Sheridan—National Life Preserver Co., recently incorporated with $175,000 capital stock, plans to establish a factory at Sheridan. O. A. Youngren, interested.

Mo., Trenton—Ice plant will be constructed by Trenton Gas and Electric Co. Estimated cost, $36,000.

Ark., Stamps—Bodcaw Lumber Co. will rebuild warehouse recently damaged by fire with a loss of $200,000.

Ark., Trumann—Ozark Cooperage and Lumber Co. will build plant. Estimated cost, $125,000.

Tex., Dallas—Plans being prepared for automobile assembling plant for Chevrolet Motor Co. Estimated cost, $250,000.

Tex., Dallas—Press reports state that Union Terminal Co. will construct additional buildings including boiler house, turntable, signal house, etc. Estimated cost, $100,000. C. H. Dana, Ch. Engr.

Tex., Port Aransas—Fisheries Co., recently incorporated with $450,000 capital stock, will build a plant on St. Joseph's Island. J. W. Munn, Pres.

Okla., Enid—Plans being prepared for two-story, 25x160-ft. reinforced-concrete factory for Mitchell Bakery Co. Estimated cost, $12,000. R. W. Shaw, Arch.

Okla., Miami—Trustees Mining Co. will build 200-ton mill at Miami.

Colo., Buena Vista—National Manufacturing Co. contemplates building smelting and cyanide plant. Estimated cost, $85,000.

Colo., Kline—Farmers Equity Association contemplates building flour mill. Estimated cost, $50,000.

Ariz., Miami—Election will be held Dec. 16 to vote on $18,000 bonds for municipal ice plant.

Wash., Odessa—Plans being prepared by Whitehouse & Price, Arch., Spokane, for two-story reinforced-concrete garage for Odessa Hardware and Improvement Co. Estimated cost, $20,000.

Wash., Spokane—Plans prepared for five-story, 60x100-ft. warehouse on Stevens St., for McClintock Trunkey Co. Bids will be received after the first of year. Estimated cost, $50,000. Noted Aug. 5.

Wash., Tacoma—Company organized by A. A. Dunewald, J. G. Anderson and J. A. Wright for the purpose of building a plant for the manufacture of milk bottles from wood plup. Estimated cost, $75,000.

Ore., Portland—Plans being prepared by N. M. Loney, Engr., for branch plant for American Can Co. Estimated cost, $600,000.

Ore., Portland—Rasmussen & Co. will build ten-story warehouse. Estimated cost, $50,000.

Calif., Los Angeles—Plans being prepared by Morgan, Walls & Morgan, Arch., Van Nuys Bldg., for four-story warehouse on Banning St. for Los Angeles Soap Co.

Calif., San Francisco—Plans prepared for two-story reinforced-concrete garage and repair shop for J. K. Bigelow. Estimated cost, $35,000. August G. Headman, Arch.

N. B., Washademoak—Daley & Carvell, St. John, purchased site at Washademoak and will build factory.

Ont., Kincardine—William Mitchell & Co. contemplates building knitting mill.

Ont., Petrolia—Marine City Sugar Co. contemplates establishing plant at Petrolia. Estimated cost, $800,000.

Ont., Port Dover—Port Dover contemplates building factory. Estimated cost, $10,000. W. Carson, Mgr.

Ont., Toronto—Plans approved for three-story reinforced-concrete building at Walmer Rd. and Bridgman St., for Farmers Dairy Co. Estimated cost, $50,000. Noted Nov. 25.

Bids In and Contracts Awarded

Conn., New Britain—Hart & Cooley Manufacturing Co. awarded contract for two-story addition to plant on Booth St. to B. H. HIBBARD CO. Estimated cost, $20,000.

Conn., Waterbury—(Official)—Contract for two-story reinforced-concrete oil-storage building for Scovill Manufacturing Co. awarded to TURNER CONSTRUCTION Co., 11 Broadway, New York, N. Y.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract for four-story, 80x100-ft. milk plant at Dean St. and Third Ave., for R. F. Stevens Co., Third Ave. and Dean St. reawarded to JAMES McARTHUR, 22 Ormund Pl. Estimated cost, $140,000. Noted Apr. 22 and 29.

N. J., Bayonne—(Official)—Vacum Oil Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., for three-story reinforced-concrete filter building.

Penn., Philadelphia—American Ice Co. awarded contract for enlarging its ice-manufacturing plant at Belfield Ave. and Reading R.R. to TURNER CONCRETE AND STEEL CO., 1713 Sansom St. Estimated cost, $50,000. Noted Sept. 23.

Penn., Philadelphia—Contract awarded to SMITH-HARDICON CO., 1606 Cherry St., for building two-story, 74x150-ft. factory at American and Filbert St., for J. D. Litt. Estimated cost, $30,000.

Penn., Pittsburgh—Pennsylvania R.R. awarded contract to W. F. TRIMBLE & SONS CO. for three-story, 40x449-ft. top addition and one-story, 27x583-ft. side addition to freight warehouse.

Md., Baltimore—Baltimore Buggy Top Co. awarded contract for one-story, 76.4x124x49-ft. addition to plant to McLAUGHLIN BROS., INC., 915 Bolton St.

Md., Sparrows Point—Maryland Steel Co. awarded contract for 75x625-ft. foundry to WEST CONSTRUCTION CO., Knickerbocker Bldg., Baltimore. Estimated cost, $350,000.

Ohio, Cleveland—American Multigraph Co., Kelly Ave. and East 40th St. awarded general contract to MASTERS & MULLEN CONSTRUCTION CO., Electric Bldg., for one-story addition. Estimated cost, $25,000.

Ohio, Cleveland—Contract awarded to REAUGH CONSTRUCTION CO., 2835 East 51st St., for two-story garage for East Ohio Gas Co. Estimated cost, $50,000.

Ohio, Cleveland—Oster Manufacturing Co., East 61st St., awarded contract for factory to BOLTON PRATT CO., Columbia Bldg. Estimated cost, $50,000. Noted Sept. 23.

Ohio, Cleveland—Jacob Spang Baking Co., Barber Ave. and West 30th St., awarded general contract for reinforced-concrete building to H. E. KLEFMAN & CO., 4319 Woodbridge Ave. Estimated cost, $12,000.

Ohio, Cleveland—The Superior East 105th Realty Co. awarded contract to METTLER-GLOYD CO., Hippodrome Bldg., for one, two and three-story garage and store building at Superior Ave. and East 105th St. Estimated cost, $49,000.

Ohio, Dayton—Ohio Metal Product Co., 39 Edgar St., awarded contract to JOHN ROUSER CO., Dayton, for three-story brick and steel addition to plant. Noted Nov. 11.

Ohio, East Akron—American Hard Rubber Co. awarded contract to KIDDER & McCOURT for five-story, 150x400-ft. plant.

Ohio, Toledo—Contract awarded to WALLS, BOCH & KUHLMAN for addition to plant of Toledo Machine and Tool Co., 1736 Dorr St. Estimated cost, $55,000. Noted Oct. 28.

Ind., Gary—American Sheet and Tin Plate Co. awarded concrete foundation contract for tin mills to ILLINOIS IMPROVEMENT AND BALLAST CO., 208 South La Salle St., Chicago, Ill. Estimated cost, $156,000. Noted Nov. 25.

Mich., Grand Rapids—Blue Valley Creamery Co. awarded contract to SCHREIMER & SCHUUR for two-story, 60x113-ft. brick and concrete plant. Estimated cost, $11,000.

Mich., Holland—Holland Furnace Co. awarded contract for 90x120-ft. addition to foundry to FRANK DYKE.

Mich., Saginaw—Kelton Aurand Co. awarded contract to LOUIS MUELLER, JR., for 60x190-ft. factory.

Ill., Chicago—Diamond Glue Co. awarded contract to R. STANDING for two-story factory at 1726 Heald Ave. Estimated cost, $10,000. Noted Oct. 21.

Ill., Chicago—Contract awarded to ANDERSON STRANDBERG CO., for two-story warehouse at 1230 Carondolet Ave. for General Chemical Co. Estimated cost, $10,000. Noted Nov. 25.

Ill., Chicago—International Harvester Co. awarded contract to W. McRAE for one-story warehouse at 2600 Marshall Blvd. Estimated cost, $17,500.

Ill., Chicago—Link Belt Co., 367 West 39th St., awarded contract to E. W. SPROUL CO. for two-story foundry. Estimated cost, $30,000.

Ill., East St. Louis—Plymouth Cordage Co., Plymouth, Mass., awarded contract to FOX CONSTRUCTION CO., Boston, Mass., for four-story, 102x140-ft. plant at 22d and Market St. Estimated cost, $100,000.

Wis., Milwaukee—Advance Engineering Co. awarded contract for one-story, 120x220-ft. factory and machine shop at North Ave. and 30th St. to C. M. WINNEMANN, concrete and cement, and to MILWAUKEE STRUCTURAL STEEL CO., steel. Noted Nov. 25.

Wis., Milwaukee—Contract awarded to FOSTER CONSTRUCTION CO., Milwaukee, for garage and commercial building for Federal Realty Co. Estimated cost, $30,000.

Iowa, Waterloo—(Official)—Contract for four-story, 116x120-ft. brick garage for Waterloo Overland Co. awarded to H. A. MAINE CO., Waterloo, at $86,000. Noted Oct. 14.

Neb., Omaha—General contract awarded to ROBERT BUTKE, Paxton Bldg., Omaha, for three-story, 40x120-ft. dye works for Dresher Bros. Estimated cost, $20,000.

Tex., Houston—Contract for two-story, 70x125-ft. garage awarded to W. B. ZINKY.

Tex., Orange—Orange Rice Mill Co. awarded contract to T. HOWELL, Orange, for 100x200-ft. warehouse.

Colo., Denver—Armour & Co. awarded contract for packing plant at Denver Union Stock Yards to STOCKER & FRASER Estimated cost, $200,000.

Colo., Denver—Colorado Packing and Provision Co. awarded contract to STOCKER & FRASER, Chamber of Commerce Bldg., Denver, for six-story packing plant. Noted Nov. 25.

Calif., Los Angeles—Harbor Commission awarded contract for six-story warehouse on Municipal Pier No. 1 to MERCHANTS REALTY AND INVESTMENT Co., Los Angeles, at $117,000.

Que., Sherbrooke—Canadian Ingersoll-Rand Co. awarded contract to ANGLINS LIMITED, Montreal, for machine shop. Estimated cost, $50,000. Noted Nov. 18.

Ont., Cobourg—Contract for garage on South King St., for Soarling & Reeson awarded to JEX, MARTIN & CO., Division St. Estimated cost, $11,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Penn., Titusville—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Terasury Dept., Washington, D. C., until 3 p.m., Jan. 10, for U. S. post office at Titusville.

Md. Ft. McHenry—(Baltimore post office)—Memorial—Competitive plans will be received until Apr. 1 by Col. W. W. Hart, War Dept., U. S. Government, 1729 New York Ave. N. W., Washington, D. C., for building Francis Scott Key Memorial at Ft. McHenry. Estimated cost, $75,000.

D. C., Washington—Elevators—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., until 3 p.m., Dec. 23, for installing electric passenger elevator in each of following buildings: U. S. post office and courthouse at Pendleton, Ore., Brattleboro, Vt., and Ardmore, Okla.

Mont., Missoula—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 29, for U. S. post office at Missoula.

Wash., Vancouver—Press reports state that U. S. post office will be built at Vancouver. Estimated cost, $75,000.

Panama—Miscellaneous Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 8, for furnishing miscellaneous supplies.

Panama—Miscellaneous Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 15, for furnishing miscellaneous supplies.

Panama—Miscellaneous and Metal Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 13, for furnishing miscellaneous and metal supplies.

Bids In and Contracts Awarded

Mass., Boston—Elevator Plant—Contract for elevator plant in U. S. appraiser's stores awarded to OTIS ELEVATOR CO., Washington, D. C. Noted Sept. 23 and Oct. 21.

N. Y., Salamanca—Post Office—Contract for U. S. post office at Salamanca awarded to DUROLITHIC CO., Buffalo, at $55,550. Noted Oct. 7 and Nov. 25.

N. Y., Tompkinsville—Buoys—Contract for six type G Pintsch gas buoys awarded to SAFETY CAR HEATING AND LIGHTING CO., 2 Rector St., New York, at $10,800.

Penn., East Pittsburgh—Post Office—Contract for U. S. post office at East Pittsburgh awarded to TORBETT CONSTRUCTION CO., Hampton, Va., at $49,021. Noted Sept. 30 and Nov. 18.

Penn., Philadelphia—Dredging—American Dredging Co., Philadelphia, at $0.089 per cu.yd. submitted lowest bid for dredging Section "F" in Delaware River on Bellevue, Cherry Island and Deep Water Point lighthouse ranges and Home Dredging Co., Mobile, Ala., at $0.08875, for Sections "H" and "J." Noted Nov. 4.

Penn., Reading—Post Office—Contract for U. S. post office at Reading awarded to JOHN LOWRY, 8 West 40th St., New York, N. Y., at $90,880.

Md., Indian Head—Extension to Pulping and Poaching House—Bids were received Nov. 27 for extension to pulping and poaching house, Indian Head, from John H. Nolan Construction Co., Washington, D. C., at $6,977, and P. L. Robinson Construction Co., Baltimore, Md., at $8,497. Noted Nov. 11.

D. C., Washington—Building—Contract for truck house on New Jersey Ave. awarded to SKINKER & GARRETT, Washington, at $33,929. Noted Nov. 4.

D. C., Washington—Sewer Work—Bids were received Nov. 29 at Office of Commissioners of District of Columbia for sewer work as follows: Section 2, Kenilworth service sewer, (a) 12,200 cu.yd. ordinary excavation, (b) 150 cu.yd. sewer brick masonry, (c) 1,000-lin.ft. 18-in. diameter pipe sewer, (d) 900 lin.ft. 15-in. pipe sewer, (e) 7,200 lin.ft. 12-in. pipe sewer, (f) 2,400 lin.ft. 10-in. pipe sewer: Harper & Voigt, (a) 50c., (b) $14, (c) 78c., (d) 69c., (e) 60c., (f) 51c.; C. H. Tompkins, (a) 67c., (b) $13.75, (c) 66c., (d) 62c., (e) 60c., (f) 41c.; Warren F. Brenizer Co., (a) 85c., (b) $12, (c) 80c., (d) 70c., (e) 60c., (f) 50c.; storm and service mains, Petworth trunk sewer, (a) 1,900 cu.yd. ordinary excavation, (b) 100 cu.yd. concrete masonry, (c) 16 cu.yd. vitrified brick masonry, (d) 15 cu.yd. sewer brick masonry, ((e) 480 lin.ft. 24-in. pipe sewer: C. H. Tompkins, (a) 70c., (b) $7, (c) $21, (d) $14, (e) 90c.; Warren F. Brenizer Co., (a) 80c., (b) $7, (c) $21, (d) $14, (e) $1.10; George Hyman, (a) $1.25, (b) $7, (c) $20, (d) $15, (e) $1. Noted Nov. 25.

Va., Norfolk—Dredging—Bids were received Nov. 27 for dredging at navy yard, Norfolk, as follows: Bay State Dredging and Contracting Co., Boston, Mass., 13.7c. per cu.yd.; Coastwise Dredging Co., Norfolk, Va., 14c. per cu.yd.; Morris & Cummings, New York, N. Y., 14.89c. per cu.yd. Noted Nov. 4.

Ohio, Cleveland—Dredging—Bids were received Nov. 26 for dredging in Cleveland Harbor from Great Lakes Dredge and Dock Co., Williamson Bldg., Cleveland, $60,000; Duluth-Superior Dredging Co., Duluth, Minn., $80,000; Duluth-Marine Construction Co., Duluth, Minn., $88,000. Noted Nov. 4.

Ohio, Van Wert—Post Office—Contract for U. S. post office at Van Wert awarded to CHARLES W. GINDELE CO., Chicago, Ill., at $56,250. Noted Oct. 7 and Nov. 18.

Mich., Muskegon—Post Office and Custom House—Bids were received Nov. 29 for U. S. post office and custom house at Muskegon as follows: Maybel & Freuchtel, Gadsten, Ala., $63,666; R. P. Farnsworth & Co., New Albany, Ind., $69,500; George W. Stiles Construction Co., Chicago, Ill., $71,818. Noted Oct. 28.

Tex., Brenham—Post Office—Bids were received Nov. 2 for U. S. post office at Brenham as follows: W. G. Carter, Chicago, Ill., $44,834; George W. Stiles Construction Co., Chicago, Ill., $45,200; Algernon Blair, Montgomery, Ala., $46,285. Noted Oct. 21.

Tex., Navasota—Post Office—Bids were received Nov. 2 for U. S. post office at Navasota, (a) limestone, (b) sandstone, as follows: (a) Algernon Blair, Montgomery, Ala., $41,836; W. D. Lovell, Minneapolis, Minn., $42,000; George W. Stiles Construction Co., Chicago, Ill., $42,200; (b) Volney E. Taylor, Marlin, $53,000. Noted Oct. 21.

Tex., New Braunfels—Post Office—Contract for U. S. post office at New Braunfels awarded to WESTON & KROEGER, San Antonio, at $40,949. Noted Sept. 30 and Nov. 18.

CANALS—DITCHES—IRRIGATION

Proposed Work

N. Y., La Salle—Turning Basin—Bids will soon be received for turning basin, 50 ft. wide, at Wheatfield town line in Cayuga Creek.

N. Y., New York—(Borough of Brooklyn)—(Official)—Dredging—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., North River, Manhattan, until 10 a.m., Dec. 6, for dredging in slip at foot of 28th St.

Fla., New Smyrna—Drainage—Lake Ashby Drainage District plans to drain about 42,000 acres. Estimated cost, $250,000. Isham Randolph & Co., Chicago, Ill., Engr. B. H. Wilson, Secy. of Drainage Dist.

Fla., Orlando—Drainage—J. Edson Andrews, Secy. and Treas. of Orlando Securities Co., Orlando, is interested in formation of drainage district to build about 60 miles of ditches and canals. Estimated cost between $130,000 and $175,000.

Ohio, Greenville—Ditch—Bonds for $38,400 for ditches and road work have been sold.

Ind., Hartford City—Ditch—Bids will be received until 2 p.m., Dec. 21, by Drainage Commissioner, I. O. O. F. Bldg., for construction of O. H. Hiatt Ditch in Washington, Jackson and Licking Townships, Blackford County.

Mich, Caro—Drainage—Sanilac, Lapeer and Tuscola Counties will build 40-mile drain. Estimated cost, $250,000.

Mich., Macon — Drainage — Commissioners of Lenawee, Washtenaw and Monroe Counties contemplate building middle branch of Macon Drain. Estimated cost between $40,000 and $50,000.

Mich., Mason—Drainage—Alaiedon and Vevay Townships will drain Alaiedon swamp, 12 miles.

Iowa, Des Moines—Ditch—Bids will be received until Dec. 6 by County Board of Supervisors for Drainage Ditch No. 16, Webster Township, and a bulkhead. Estimated cost, $10,922.

Iowa, Des Moines—Ditch—Bids will be received until Dec. 6 by County Board of Supervisors for Drainage Ditch No. 17 in Lincoln and Crocker Townships and a bulkhead. Estimated cost, $26,100.

Iowa, Keosauqua—Drainage—Van Buren County contemplates straightening Fox River, includes approximately 500,950 yd. excavation. Estimated cost, $55,650.

Iowa, Ottumwa—Ditch—H. O. Wray will make surveys of Soap Creek Drainage Ditch. Noted Oct. 21.

Iowa, Wall Lake—(Official)—Drainage—Surveys made and plans prepared for straightening and deepening Boyer River and draining Goose Pond Swamp. Estimated cost, $81,000. Seth Dean, Glenwood, Iowa, Engr.

Minn., Anoka—Drainage—County contemplates draining Coon Creek, eight miles. Estimated cost, $45,000. W. L. Ridge Co., Suveyor.

Minn., Bemidji—Ditches—Bids will be received until Dec. 15 by J. L. George, County Audr., Beltrami County, and L. H. Slocum, Audr., Koochiching County, for constructing Judicial Ditch No. 36, about 127 miles long. Estimated cost, $212,195. Noted Nov. 11.

Minn., St. Cloud—Ditch—Contract will soon be awarded for Ditches Nos. 26 and 35. S. S. Chute, County Surveyor.

Minn., Windom—Ditch—Contract will be awarded about Dec. 13 for Judicial Ditch No. 24. Estimated cost, $22,803. P. G. Newfeld, Clk., District Court.

Mo., Bloomfield—Ditch—Bids will be received until 2 p.m., Dec. 6, for ditch for Drainage District No. 28. R. F. Jones, County Clk.

Tex., Anahuac—Irrigation Improvements—Trinity River Irrigation District voted $30,000 bonds for repairing bulkhead across Smith Bay. Noted Nov. 25.

Tex., Barstow—Irrigation Improvements—Bids will be received until Dec. 20 for building dams, reservoirs, headgates, sluice-gates and all other improvements for Ward County Irrigation District No. 1. G. W. Dyer, Pres.

Tex., Dallas—Reclamation—Kaufman County No. 1, Ellis County No. 1, Ellis County No. 2, Ellis County No. 3 and Dallas County No. 1 contemplate reclaiming about 50,000 acres of land. Estimated cost, $420,000. O. W. Fonley, District Engr.

Tex., Robstown—Drainage—Bids will be received until Dec. 6 by Neuces County Drainage District No. 2 for ditches.

Colo., Craig—Irrigation—Preliminary plans prepared for irrigation system for Elk River Irrigation Co. Estimated cost, $2,000,000. William P. Finley, Consult. Engr.

N. M., Raton—Irrigation—Trustees of Antelope Irrigation District contemplate enlarging storage capacity of district and extending ditches. Estimated cost, $325,000.

Idaho, Caldwell—Dam—Directors of Glen Lake Irrigation District contemplate building concrete dam on Boise River about five miles below Arrowrock Dam. W. W. Peters, Secy.

Idaho, Caldwell—Irrigation—Election will be held Dec. 14 in Caldwell Irrigation District to vote on $27,000 bonds for repairing and enlarging system.

Idaho, Nyssa—(Official)—Irrigation—Bids will be received about Jan. 10 for reclaiming approximately 8,000 acres near Nyssa for Nyssa-Arcadia Drainage District. G. McGee, Caldwell, Ch. Engr. Noted Oct. 21.

Utah, Ephraim—Irrigation—George A. Snow, Salt Lake City, Walter I. Moddy, Chicago, Ill., and C. A. Tusch, California, contemplate constructing irrigation project. Estimated cost, $500,000.

Ariz., Holbrook—Irrigation—Contract will soon be awarded for rebuilding Woodruff Dam and repairing irrigation works. Q. R. Gardner, County Superv.

Ariz., Tempe—Ditches—Bids will be received until Dec. 14 by J. W. Miller, Chn., Bd. of Directors, District No. 1, Maricopa County, for constructing 8.4 miles main open drain ditch.

Wash., Kennewick—Irrigation—Commercial Club interested in development of Benton County land through extension of Sunnyside Irrigation Canal to Hover, 12 miles, to irrigate about 40,000 acres.

Ore., Salem—Dam—State Engineering Department approved application of Dobbins Ditch Co., Joseph, to build dam on outlet of Wallowa Lake.

Ore., Silver Lake—Irrigation—Silver Lake Water Users' Association will form irrigation district to irrigate 46,000 acres of land. United States Reclamation Service estimates cost at $28.10 per acre.

Calif., San Joaquin—Reservoir—Bids will be received until Dec. 6 for Woodward Reservoir. Estimated cost, $174,000. A. Geiffen, Monteca, Engr. C. A. Proudfit, Monteca, Secy., South San Joaquin Irrigation District. Noted Nov. 18.

Bids In and Contracts Awarded

Mass, Boston—Dredging—One bid received Nov. 24 by Directors of Port of Boston, 40 Central St., for dredging and filling East Boston Flats, Contract No. 46, about 1,500,000 cu.yd., from H. P. Converse & Co., 88 Broad St., Boston, at $371,250. Noted Nov. 18.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—P. Sanford Ross, Inc., 135 Bay St., Clifton, S. I., at $0.30 per cu.yd., submitted only bid Nov. 23 for dredging in North River from 103rd to 109th St., approximately 33,000 cu.yd.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Bids were received Nov. 23 by Department of Docks and Ferries for dredging at foot of East 90th St., East River, 17,000 cu.yd., from Morris & Cummings Dredging Co., 17 State St., New York, $0.33 per cu.yd.; P. Sanford Ross, Inc., $0.70 per cu.yd.; R. C. Packard & Co., $0.80 per cu.yd.

Penn., Port Richmond—(Philadelphia post office)—Dredging—Contract awarded to BOWERS SOUTHERN DREDGING CO., Galveston, Tex., for deepening ship channel in Delaware River. Estimated cost, $75,000.

Fla., Tallahassee—Locks and Dams—Contract for three locks and dams in Everglades Drainage District awarded to SAVANNAH ENGINEERING AND CONSTRUCTION CO., Savannah, Ga., at $120,000. Noted Aug. 12.

Iowa, Jefferson—Drainage—Contract for furnishing tile for drainage work in Districts Nos. 10 and 33 awarded to MACOMB SEWER PIPE CO., Macomb, Ill., at $10,622.

Minn., Alexandria—Ditch—Contract for Ditch No. 17 awarded to CARL CHRISTENSON, Litchfield, at $17,589.

Minn., Blue Earth—Ditches—County Commissioners awarded contracts for construction of ditches to HAWKEYE CONSTRUCTION CO., Webster City, Iowa, $7,943, Ditch No. 29; O. C. OLESON, Blue Earth, $7,195, Ditch No. 40. Jesse L. Harring, County Audr.

Minn., New Ulm—Ditches—Contract for tile and open ditches awarded to CHRISTOPHER NIELSEN, Sunborn, at $12,345.

Minn., Windom—Ditch—Contract for Judicial Ditch No. 20 awarded to REDDING & SMAGE, Windom, at $23,700. Noted Nov. 18.

Minn., Windom—Ditch—County Commissioners awarded contract for Ditch No. 21 to HANS TRUFESEN, Live Creek, at $13,989. Noted Nov. 18.

Ark., Blytheville—Drainage—Contract for Drainage Ditch No. 16 awarded to CLYDE WALDE, National Bank Bldg., La Grande, Ind., at $6.39 per cu.yd. Estimated cost, $425,000.

Ark., Knobel—Ditch—Contract for 52.75 miles of ditches and 4.25 miles of levees awarded to NORTHERN CONSTRUCTION CO., Elkhart, Ind., at $116,300. Noted Nov. 25.

Colo., Trinidad—Ditch—Contract for ditch awarded to J. A. LAUGHLIN. Estimated cost, $15,000.

Idaho, Boise—Irrigation—Contract awarded to WICKAHONEY LAND AND WATER CO. for irrigation of 30,000 acres for Bruneau Irrigation Project in Owyhee County. Estimated cost, $50 per acre. Noted Oct. 28.

Ore., Baker—Ditch—Contract awarded to MACY BROS., Sparta, for constructing ditch to connect Hogen Ditch with Eagle Creek three miles.

Ore., Hood River—(Official)—Irrigation—Board of Directors of East Fork Irrigation District Nos. 5 and 6 awarded contract to CENTRAL TIMBER AND CONTRACTING CO., Carlton, for diversion gates, dam and intake works and for enlarging canals. Noted Nov. 11.

Calif., Modesto—Irrigation—George J. Ulrich at $19,340 submitted lowest bid for nine concrete drops for Modesto Irrigation District.

T. H., Honolulu—Irrigation—Lord-Young Engineering Co., Honolulu, at $109,600 submitted lowest bid for Waiolama fill for Waiolama Reclamation and Sanitation Project at Hilo.

MISCELLANEOUS

Proposed Work

Conn., Windsor—Elimination of Grade Crossing — Plans submitted to Highway Commissioner, Hartford, for elimination of grade crossing in Windsor. Estimated cost, $90,000.

N. Y., Albany—Fire Alarm Station—Bids will be received until Dec. 6 by Board of Contract and Supply for building fire alarm station at Delaware and Myrtle Ave.

N. Y., Ithaca—Elimination of Grade Crossings — Surveys completed for street junctions and railroad gradings preparatory to elimination of grade crossing on Delaware, Lackawanna & Western R.R. in South Aurora St., South Hill, Ithaca. Estimated cost, $40,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—Tank—Bids will be received by L. H. Pounds, Borough Pres., Room 2, Borough Hall, until 11 a.m., Dec. 9, for furnishing labor and materials for construction of steel tank and fittings, having a capacity of 52,800 gals., to be used for storage of liquid asphalt, at municipal asphalt plant, 7th St. basin, Gowanus Canal.

N. Y., Olean—Flood Protection—Plans approved by W. W. Wotherspoon, State Supt. of Pub. Wks., for deepening and straightening Olean Creek from junction with Alleghany River to point 2½ miles up stream and building dikes and retaining walls on bank of creek. Estimated cost, $150,000. E. W. Fitzgerald, Olean, Pres. of Flood Abatement Comn. Noted Nov. 18.

N. Y., Rochester—Bathhouse and Bandstand—Plans prepared for bathhouse and bandstand at Durand-Eastman Park. Estimated cost, $12,000.

N. J., Ventnor—(Atlantic City post office)—Jetties—City Council authorized bond issue of $10,000 for jetties from Cambridge to Portland Ave.

Penn., Erie—Flood Protection—City Council adopted plan recommended by Farley Gannett, Telegraph Bldg., Harrisburg, for flood protection in Milk Creek. Plan adopted calls for reinforced-concrete conduit about 12,500 ft. long, 22 ft. wide, 18 ft. high with inside diameter capacity of 12,000 cu.ft. per second. Estimated cost, $900,000. Noted Oct. 21.

Va., Richmond—Creek Improvements—Charles E. Bolling, City Engr., estimated cost of straightening sewers and cover in Shockee Creek from river to Seventh and Hospital St. at $1,035,000.

Fla., Miami—Harbor Channel and Piers—Bids will be received until Dec. 20 for harbor channel and piers, Miami. Isham Randolph & Co., Chicago, Ill., Engr. Noted July 8 and Sept. 16.

Miss., Meridian—Subway—City officials and representatives of interested railroads estimate cost of 26th St. subway at $100,000.

La., Lake Charles—Retaining Wall—City will build retaining wall from Gill to Foster St., and construct boulevard and city park. Estimated cost, $100,000.

Tenn., Chattanooga—Wharf—City sold $100,000 bonds to improve wharf. R. Hooke, City Engr. Noted Oct. 14.

Tenn., Memphis—River Improvements — Mississippi River Commissioners plan to direct flow of Wolf and Loosahatchie Rivers to keep harbor clear of sand bars.

Ohio, Akron—Subway—Firestone Tire and Rubber Co. secured permission to build subway under South Main St. from factory to new club house and restaurant.

Ohio, Columbus—Elimination of Grade Crossing — Plans prepared by engineers of Pennsylvania R.R. and four other railroad companies for elimination of grade crossing in North Side of Columbus. Estimated cost, $600,000. City will pay $200,000 of cost.

Ohio, Sandusky—Coal Dock—Cleveland, Cincinnati, Chicago & St. Louis Railway contemplates building coal docks and car dumping machine. George P. Smith, Cincinnati, Consult. Engr.

Ohio, Upper Sandusky—Creek Improvement—County Commissioners contemplate widening and straightening Tymochett Creek. Estimated cost, $125,000.

Ill., Chicago—Engine House—City will build two-story brick engine house at 5318 Western Ave. Estimated cost, $19,000. C. Kallah, Arch.

Iowa, Jefferson—Subway—Chicago & Northwestern Railway will build subway under tracks. Estimated cost, $25,000. W. H. Finley, Chicago, Ill., Ch. Engr.

Minn., St. Paul—Steel Stairway—Bids will be received until 10:30 a.m., Dec. 6, by August Hohenstein, Pur. Agt., for steel stairway on Hall Ave. between South Wabasha St. and Prospect Terrace.

Wyo., Cheyenne—Pipe Line—According to press reports Governor Kendrick appointed committee to confer with committee of Nebraskans on proposition to build oil pipe line from Wyoming into and across state of Nebraska. Cost limited to $5,000 mile.

Tex., Beaumont—Machinery and Pier—All bids received Nov. 15 by J. G. Sutton, Secy. Wharf and Dock Commission, for quay walls, trans-shipment shed, and freight machinery rejected. New bids will be received. Noted Nov. 4.

Tex., Ft. Worth—Levee—Election will soon be held to vote on $75,000 bonds for levees. A. A. Stiles, State Reclamation Agt.

Tex., Galveston—Bulkhead—A. T. Dickey, City Engr., estimates cost of raising protective grade back of seawall, 21 ft. from Sixth to 19th St. with bulkhead at $109,280, without bulkhead at $91,280.

Ore., Astoria—Mausoleum—Portland Mausoleum Co., Portland, contemplates building Mausoleum at Astoria. Estimated cost, $40,000.

Ore., Riverview—Mausoleum — Plans being prepared by Lawrence & Holford, Arch., for mausoleum for Portland Mausoleum Co., Portland. Estimated cost, $65,000.

Calif., Oakland—Mausoleum—Pacific Mausoleum Co. plans to build a mausoleum in Contra Costa County. Estimated cost, $300,000.

Que., St. Lambert—Race Track—Bids will soon be received by T. C. Kirby, 128 Bleury St., Montreal, for grading, ballasting, fencing, building double deck grand stand, single stage bleacher and club house required in construction of automobile race track for Canadian Speedway Co., Ltd.

Bids In and Contracts Awarded

Mass., Boston—Bulkhead—Bids were received Nov. 24 by Directors of Port of Boston for bulkhead and 170,000 cu.yd. dredging and placing filling beneath and around bulkhead, Contract No. 47, from Bay State Dredging Co., 247 Atlantic Ave., Boston, $82,830; Coleman Bros., Pearl St., Chelsea, $95,500; H. P. Converse & Co., 88 Broad St., Boston, $123,218. Noted Nov. 18.

Mass., Boston—(Roxbury)—Engine House—Lowest bids received by city Nov. 22 for alteration to Engine House No. 14 on Center St., Roxbury, were as follows: D. R. McKillop, 127 West Brookline St., $12,792; McDonald & Son, 98 Granite St., $12,943; McNeil Construction Co., 201 Devonshire, St., $13,187.

Mass., Boston—(Roxbury)—Ladder House—Bids received Nov. 22 by city for alteration to Ladder House No. 14 on Dudley St., Roxbury, from D. R. McKillon, 127 West Brookline St., $13,333; McDonald & Son, 98 Granite St., South Boston, $13,735; M. D. Mealy Co., Brookline, $13,945.

R. I., Providence—Arena—Contract awarded to JOHN F. MACLAREN, Providence, for two-story, 100x120-ft. arena for Marieville Association. Estimated cost, $25,000.

N. Y., New York—(Borough of Bronx)—(Official)—Track Installation—Bids were received Nov. 23 by Public Service Commission of First District, 154 Nassau St., for track installation on White Plains Rd. and extension of existing subway from Coast & Lake Contracting Corporation, 41 Broad St., New York, $53,930; Southeastern Construction and Engineering Corporation, $101,205; T. H. Reynolds Contracting Co., $102,126. Noted Nov. 18.

N. Y., New York—(Borough of Brooklyn)—Dry Dock—Contract for floating dry dock at foot of 58th St. awarded to MORSE DRY DOCK AND REPAIR CO.

Md., Baltimore—(Official)—Coal Pier—Baltimore & Ohio R.R. awarded contracts for coal pier at Curtis Bay, Baltimore, to H. S. KERBAUGH, INC., Baltimore, dredging, bulkhead and superstructure; ROBINS CONVEYING AND BELT CO., New York, N. Y., conveying machinery; SMITH-McCORMICK, Easton, Penn., grading. Estimated cost, $1,500,000. F. L. Stuart, Ch. Engr. Noted Sept. 30.

La., New Orleans—Revetment—Contracts awarded to W. J. COMERFORD, New Orleans, for wooden revetment and restoring wave wash from Kentucky to Angelina St., P. C. POWERS & SONS, McComb, Miss., for reinforced-concrete revetment and toe-wall from Bartholomew to Lesseps St.

La., New Orleans—Wharf—Doullut & Williams, New Orleans, at $154,000, submitted lowest bid for piling, timber, etc., for wharf of grain elevator, wharf to be 1,350 ft. long and 12 ft. wide.

Ky., Hawesville—Creek Improvements—Contract for widening and straightening Panther Creek in Hancock and Ohio Counties awarded to W. E. EWAN, at $10,000.

Ohio, Portsmouth—Flood Protection Wall—Contract for second section of flood protection wall awarded to GLANDORF & BROWNING, Cincinnati, at $67,779. Noted Nov. 25.

Ind., Gary—Ore Dock—Contract for ore dock for U. S. Steel Co. awarded to ILLINOIS IMPROVEMENT AND BALLAST CO.

Neb., Omaha—(Official)—Crane—Contract for railroad crane of five tons capacity awarded to LINK BELT CO., Chicago, Ill. Noted Nov. 11.

Tex., Beaumont—Wharf—City Council awarded contract to JOHN O. KELLY, San Antonio, at $65,000, for 500-ft. wharf to be known as Unit No. 2. Noted Oct. 21.

Tex., Galveston—Bathhouse—Contract for bathhouse for Murdoch Bathhouse Co. awarded to J. W. ZEMPTER, Galveston. Estimated cost, $18,000.

N. M., Gallup—River Improvements—Santa Fé R. R. awarded contract to SHARP & GALLUP, Topeka, Kan., for initial work at Gallup to change course of Puerco River. Site when filled in will be used for shops, roundhouses and tracks. Estimated cost, $67,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

Proposed Work

Maine, Camden—Preliminary plans being prepared by W. E. Schwartz, Arch., Camden, for hotel. Estimated cost, $40,000.

N. H., Dixville—Preliminary plans being prepared for hotel for Dixville Notch Corporation. Estimated cost, $200,000. C. R. Whitchner, The Beacon, Manchester, Arch.

Mass., Boston—(Dorchester)—Bids will be received by Schoolhouse Committee, City Hall Annex, until Dec. 11, for Sarah Greenwood Elementary School, Dorchester. Estimated cost, $140,000. Funk & Wilcox, 120 Boylston St., Boston, Arch.

Mass., Bourne—Plans being prepared for railroad station for New York, New Haven & Hartford R.R. E. Gagel, New Haven, Ch. Engr.

Mass., Everett—Plans being prepared by Charles R. Greco, 8 Beacon St., Boston, for one-story church for St. Joseph's Church Society. Estimated cost, $50,000.

Mass., Lynn—Press reports state that school will be constructed on Conomo Ave. Estimated cost, $100,000.

Mass., Newton—Tentative plans prepared by Haven & Hoyt, Arch., for club house for Commonwealth Country Club. Estimated cost, $50,000.

Mass., Springfield—All bids received for Hampden County training school rejected as being too high. Plans will be revised and new bids asked.

Mass., Stoneham—Plans being prepared by Penn Varney, 27 Exchange St., Lynn, for fire and police station. Estimated cost, $40,000.

Mass., Worcester—J. W. Critchley, 663 Southbridge St., has purchased a site at Main and Walnut St. on which he will build a 10-story office building.

R. I., Pawtucket—George W. and Ella Shaw will build a three-story business block at Hillside and Pawtucket Ave.

Conn., Bridgeport—Plans being prepared by F. A. Cooper, Arch., for an addition to the Garfield School. Estimated cost, $45,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans prepared by Gronenberg & Leuchtag, Arch., 303 Fifth Ave., for one-story, 151.3x130.5-ft. brick store and theater building at Fordham Rd. and Grand Concourse for Fordham Road Corporation. Estimated cost, $75,000.

N. Y., Pelham—Board of Education contemplates building additions to three schools. Estimated cost, $50,000. Louis W. Francis, Pres., Bd. of Education.

N. Y., Potsdam—Contract will soon be awarded for two-story normal school for New York State Department of Education. Estimated cost, $300,000. Noted Oct. 14 and 21.

N. Y., Rochester—George Simpson, Regent Theater, East Ave., interested in organization of company for purpose of building theater and store building. Estimated cost, $1,000,000. Leon Lempert & Son, 149 Culter Bldg., Arch.

N. J., Bayonne—Plans being prepared for addition to high school, and School No. 3 and for building new School No. 5. Estimated cost, $482,000. Fagan & Briscoe, 95 River St., Hoboken, Arch.

N. J., Freehold—Council plans to build new city hall and fire house.

N. J., Hoboken—Board of Education plans to build three new school buildings to replace Schools Nos. 2, 3 and 4. James Laverty, Pres., Bd. of Education.

N. J., Princeton—Plans being prepared by Coolidge & Carlson, 89 State St., Boston, Mass., Arch., for medical research buildings for Rockefeller Institution. Estimated cost, $300,000.

Penn., Allentown—Y. M. C. A. will construct six-story addition. Estimated cost, $100,000. Louis E. Jallade, New York, N. Y., and Ruhe & Lange, Allentown, Archs.

Penn., Eddystone—Plans being prepared by Henon & Boyle, Arch., Philadelphia, for seven-story hotel for Remington Arms Co. Estimated cost, $175,000.

Penn., Philadelphia—Plans being prepared by Robeson Lea Perot, Arch., 34 South 17th St., Philadelphia, for 12-story reinforced-concrete office building. Estimated cost, $250,000.

Penn., Philadelphia—Mount Carmel Methodist Episcopal Congregation will build church at Broad St. and Northeast Blvd. Estimated cost, $75,000.

Penn., Pittsburgh—A 16-story mercantile and office building will be constructed at Seventh Ave. and Smithfield St. by G. T. Oliver, U. S. Senator.

Penn., Uniontown—Election will soon be held to vote on $250,000 bonds for schools.

Del., Wilmington—Plans being prepared by Edward Canby May, Arch., du Pont Bldg., for two bank buildings.

Md., Baltimore—Plans being prepared by Alfred C. Leach, Arch., for public school at Patterson Park. Estimated cost, $100,000.

Md., Baltimore—Baltimore Evangelistic Association will build a tabernacle at Greenmount Ave., Barclay, 28th and 29th St. D. Baker, 520 Equitable Bldg., interested.

D. C., Washington—Plans prepared for two-story, 150x173-ft. theater and office building for George T. Smallwood and I. Cassidy, 3520 16th St., N. W. Estimated cost, $100,000. R. W. Geare, Southern Bldg., Arch.

D. C., Washington—Preliminary plans prepared for theater for Rialto Building Co. Estimated cost, $150,000. Thomas W. Lamb, 644 Eighth Ave., New York, N. Y., Arch.

Va., Norfolk—A four-story building will be constructed on Kin St. for St. Paul's Female Academy.

Va., Roanoke—L. E. Johnson, Pres. of Norfolk & Western R.R., and associates will enlarge Hotel Roanoke. Estimated cost, $200,000.

S. C., Greenwood—Main Street Methodist Church will erect building. Estimated cost between $40,000 and $50,000. A. C. Stockman, C. C. Featherstone and George Hart, interested.

Fla., Clearwater—Election will probably be held in December by citizens of Pinellas County to vote on $150,000 bonds for courthouse and jail. Noted Oct. 28.

Fla., Jacksonville—National Motion Picture Co. contemplates building motion-picture theater. Estimated cost, $300,000.

Ala., Birmingham—Plans prepared by William Leslie Welton, Arch., Jefferson County Bank Bldg., for two additions to Birmingham Infirmary in West End. Estimated cost, $100,000.

Ala., Montgomery—Women's College plans to build dormitory in spring. Estimated cost, $50,000. W. M. Swartz interested.

Miss., Pontotoc—Bids will be received about Dec. 6 for court house for Pontotoc County. Estimated cost, $75,000. Noted Oct. 28.

Miss., Yazoo City—Bonds for $45,000 will be issued for high school.

La., Alexandria—Three-story building will be constructed by Knights of Columbus, Alexandria Council No. 1134.

La., Shreveport—Construction of building estimated to cost $50,000 contemplated by Shreveport Fair Association.

Tenn., Bristol—Citizens voted $60,000 bonds for high school. Noted Oct. 28.

Tenn., Cookeville—State Board of Education, Nashville, plans to construct two buildings at State Normal and Polytechnic School. Estimated cost, $145,000.

Tenn., Nashville—Bids will soon be received by Board of Education for Elliott Street School and negro high school. Estimated cost, $70,000 and $55,000 respectively. Noted Oct. 7.

Tenn., Nashville—Bids will be received until Dec. 4 by Asmus & Norton, Arch., for dormitories and administration buildings for State Polytechnic School. Estimated cost, $125,000.

Ky., Danville—Bids will be received about Jan. 1 by W. S. Van Dalsem, Arch., Masonic Bldg., for five-story, 78x100-ft. hotel for Danville Hotel Co. Estimated cost, $60,000.

Ky., Lexington—Plans prepared for two-story, 30x40-ft. Sunday school for Porter Memorial Church. Estimated cost, $40,000. Frank L. Smith, 29 Lexington Bank and Trust Bldg., Arch. Bids for same will be received in spring.

Ky., Lexington—Board of Education plans to build two-story school. Estimated cost, $50,000. C. T. Melcher, Pres. Bd. of Education.

Ohio, Akron—Bids will soon be received by the Board of Education for two-story Jennings School. Estimated cost, $100,000. T. R. Ridley, Arch., Cottage Pl., Akron.

Ohio, Akron—Summit County contemplates building county infirmary. Estimated cost, $250,000. C. L. Bower, Clk. Bd. of County Comr.

Ohio, Akron—Bids will be received by J. F. Barnheart, Clk. of Bd. of Education, until noon, Dec. 13, for Bowen School. Harpster & Bliss, Nantucket Bldg., Arch.

Ohio, Alliance—Chamber of Commerce is interested in a project to build a new union station.

Ohio, Cincinnati—A theological seminary will be constructed on Norwood Heights by Archdiocese of Cincinnati. Estimated cost, $300,000.

Ohio, Cincinnati—Bids will be received by C. W. Handman, Bus. Mgr., Bd. of Education, until noon, Dec. 20, for Industrial Arts Building, tunnel K and power house, stadium, gymnasium and tunnel J, of Eastside High School.

Ohio, Cincinnati—Plans will be prepared by Garber & Woodward, Arch., for new public school. Estimated cost, $60,000.

Ohio, Cleveland—Plans being prepared by E. E. Hart, Ch. Engr., for two-story, 100x800-ft. railroad terminal and steel trestle, 600-ft. long on Clay Court and East Ninth St. for New York, Chicago & St. Louis R.R. Estimated cost, $400,000.

Ohio, Cleveland—Cleveland Public Library Board will build library building. Estimated cost, $2,000,000.

Ohio, Cleveland—Frank D. Skeel, Arch., 213 Vickers Bldg., Cleveland, will soon award contract for six-story hotel on East 61st St. for G. W. Crile. Noted Oct. 21.

Ohio, Columbus—Plans being prepared by Richards, McCarty & Bulford, Arch., for church at Auburn and Madison Ave., for Franklin Park M. E. Church. Estimated cost, $45,000.

Ohio, Defiance—Lodge No. 147, B. P. O. E. contemplates building two-story lodge building. Estimated cost, $60,000.

Ohio, East Cleveland—City contemplates two new fire stations. Estimated cost, $50,000.

Ohio, Findlay—Buckeye National Bank will remodel and improve its bank building. Estimated cost, $40,000.

Ohio, Lakewood—New York, Chicago & St. Louis R.R. contemplates building two-story passenger station. Estimated cost, $50,000. William H. Canniff and E. E. Hart, 412 Hickox Bldg., Ch. Engrs.

Ohio, Lebanon—Bids will be received by Bausmith & Drainie, Arch., Gerke Bldg., Cincinnati, until Dec. 20, for public memorial building.

Ohio, New Philadelphia—Bids will be received until noon, Dec. 14, for two-story, 60x85-ft. school for Goshen Township. Estimated cost, $45,000. J. W. Syron, 118 Court St., New Philadelphia, Clk. of Bd. of Education.

Ohio, Olmsted Falls—Plans being prepared by W. H. Nickolas, Arch., 1900 Euclid Ave., Cleveland, for high and grade school. Estimated cost, $50,000.

Ohio, Orient—Bids will be received until noon, Dec. 13, by John W. Lane, Clk., Bd. of Education, Rural School District, Scioto Township, for purchase of $45,000 bonds for school.

Ohio, Toledo—Plans being prepared by Thomas F. Huber, Arch., Toledo, for 10-story hotel on Summit St. for George P. Waldorf. Estimated cost, $125,000.

Ohio, Toledo—Central Ohio Paper Co., Columbus, plans to build three-story commercial building on Ontario St., Toledo. Estimated cost, $40,000.

Ohio, Wilmington—Plans prepared for three-story, 110x140-ft. courthouse and jail for Clinton County. Estimated cost, $300,000. H. Castl, County Audr.

Ind., Huntington—Plans being prepared by Elmer E. Dunlap, Arch., 909 State Life Bldg., Indianapolis, for two-story, 141x183-ft. high school for Board of Education. Bids will be received about Jan. 1.

Ind., Indianapolis—Pennsylvania R.R. plans to build freight station on Pennsylvania St. Estimated cost, $300,000.

Ind., Portland—Bids will soon be received for three-story, 90x160-ft. court house for Jay County. Estimated cost, $275,000. Noted Nov. 4.

Ind., Terre Haute—Plans will be prepared by H. W. Foltz, Arch., Indiana Pythian Bldg., Indianapolis, for proposed McLean School. Estimated cost, $115,000.

Mich., Flint—Citizens voted $100,000 bonds for schools.

Mich., Grand Rapids—Plans being prepared by Pierre Lindhout, Arch., 718 Ashton Bldg., for two-story, 88x110x141-ft. bank and store building and garage.

Mich., Kalamazoo—Contract will soon be awarded for Nurses' Home for Kalamazoo State Hospital. Estimated cost, $56,000. Wernette, Bradfield & Mead, 441 Houseman Bldg., Grand Rapids, Mich., Arch. Noted Oct. 28.

Ill., Champaign—Plans being prepared for two-story theater for a stock company represented by Thomas Wilson, 53 North Market St., Champaign. C. W. & George L. Rapp, Arch., 69 West Washington St., Chicago, Ill. Estimated cost, $100,000.

Ill., Chicago—Bids will be received by Ottenheimer, Stern & Reichert, Arch., 220 State St., until Dec. 10, for 12-story clubhouse for Chicago Lodge No. 4, B. P. O. E. Estimated cost, $350,000.

Ill., Chicago—A new hospital will be constructed at Highland Park. Estimated cost, $100,000.

Ill., Mattoon—Trustees of Memorial Hospital plan to construct new hospital.

Ill., Ottawa—Plans prepared by J. F. Richardson, Arch., for Illinois Valley general hospital. Estimated cost, $75,000. J. W. Pettit, interested.

Ill., Urbana—Plans being considered by Methodists of Illinois for several buildings at University of Illinois. Estimated cost, $500,000.

Wis., Eau Claire—Common Council considering construction of municipal auditorium. Estimated cost, $85,000.

Wis., Milwaukee—Preliminary plans being prepared by Van Ryn & DeGelleke, Arch., Caswell Block, for three-story, 85x120-ft. school of trades for girls for Milwaukee Board of School Directors. Estimated cost, $160,000.

Wis., Plymouth—Press reports state that Lutheran hospital will be constructed in Plymouth. Estimated cost, $40,000.

Wis., Superior—Allied Protestant Churches plan to build hospital. Estimated cost, $100,000.

Iowa, Carroll—Contract for three-story, 88x149-ft. school will be awarded some time in January by Board of Trustees of Independent School District. Bonds for $80,000 voted for this purpose. Noted Oct. 21.

Iowa, Centerville—Bids will be received until Dec. 15 for three-story hospital for Sisters of Mercy. Estimated cost, $45,000. F. E. Cox, Arch., 45 Baldwin Bldg., Council Bluffs.

Iowa, Davenport—Bids will be received by George D. Stanhuhar, Arch., 608 Best Bldg., Rock Island, Ill., until Dec. 15, for senior hall, dormitories and chapel for St. Ambrose College. Estimated cost, $75,000.

Minn., Minneapolis—Thorpe Bros. contemplates building at Eighth and Hennepin Ave. Estimated cost, $500,000.

Minn., Minneapolis—Plans being prepared by Kees & Colburn, Arch., for 12-story commercial and theater building at Hennepin and Seventh St. for Hennepin Holding Co. Estimated cost, $1,000,000. Hazen J. Burton, Pres.

Minn., Rochester—Plans being prepared by F. H. Ellerbe, Arch., 692 Endicott Bldg., St. Paul, for three hospital buildings.

Minn., St. Paul—New building contemplated by Home of the Friendless, 469 Collins St. Estimated cost, $75,000.

Minn., St. Paul—People's Bank of St. Paul plans to construct business building. Estimated cost, $150,000.

Minn., Virginia—Plans being prepared by Carl E. Nystrom, Arch., 502 Palladio Bldg., Duluth, for two-story high school. Estimated cost, $150,000. A. B. Holly, Clk. Bd. of Education.

Kan., Iola—Allen County State Bank will build a two-story building. Estimated cost, $50,000. T. H. Bowlus, Pres.

Kan., Pittsburgh—Plans being prepared by Crowell & Van Meter, Arch., Wichita, for three-story, 70x150-ft. hospital. Bids will be received about Jan. 1. Estimated cost, $100,000.

Kan., Wichita—Press reports state that Bell Telephone Co. will build a five-story office building at First and Market St.

Neb., David City—Citizens voted $60,000 bonds for high school. Noted Nov. 25.

Neb., Lincoln—Bids will be received until 4 p.m., Dec. 15, by J. S. Dales, Secy. Bd. of Regents of Nebraska University, for chemistry and hospital buildings.

Neb., Lincoln—Plans prepared for 10-story 85x142-ft. terminal building at 10th and O St. for Lincoln Traction Co.

Neb., Lincoln—Orpheum Building Co. plans to build new theater. Estimated cost, $75,000.

Neb., Omaha—Plans being prepared for hospital for University of Nebraska, College of Medicine. Estimated cost, $150,000. John Latenser & Sons, 626 Bee Bldg., Arch.

S. D., Webster—Election will be held in December to vote of $60,000 bonds for two-story high school for Board of Education. Holmes & Flinn, Arch., 8 Dearborn St., Chicago, Ill. Noted Nov. 25.

Mo., Jefferson City—Citizens of Cole County defeated $50,000 bonds for jail and tuberculosis hospital. Noted Aug. 12.

Mo., Joplin—Joplin School District voted to issue $350,000 bonds for high school. J. A. Becker, Pres. School Bd. Noted Nov. 18.

Mo., Kansas City—Plans being prepared by Madorie & Birdsall, Arch., 832 Reserve Bank Bldg., for four-story, 62x128-ft. dormitory for city. Estimated cost, $125,000.

Mo., Kansas City—Plans being prepared by F. H. Michaelis, Arch., 113 McGee St., for a 12-story office building at 912-14 Walnut St. for Richard W. Smith, 3120 Charlotte St. Estimated cost, $150,000.

Mo., Neosha—Bonds for $48,000 voted for high school.

Mo., Nevada—Citizens defeated $40,000 bonds for city hall.

Mo., St. Joseph—Bartlett Bros. Land and Loan Co. will build five-story building at Eighth and Felix St.

Mo., St. Louis—Missouri National Guard, Troop B, plans to build armory. Estimated cost, $350,000.

Mo., St. Louis—Y. M. C. A. plans to erect colored branch building. Estimated cost, $125,000.

Ark., Searcy—Company is being organized for the purpose of building hotel. Estimated cost, $40,000. C. E. Myrick, interested.

Tex., El Paso—Plans being prepared for seven-story store and office building at Mills and Stanton St. for William M. Banner and M. D. Roberts. Estimated cost, $200,000.

Tex., Gainesville—Bids will be received about Dec. 20 by Patrick Henry, Chn. of Bd. of Control, for four dormitories for Texas State Girls' Training School.

Okla., Tulsa—(Official)—We have been advised that George Winkler, Tulsa, and not Walter E. Gilham, Kansas City, Mo., is architect for high school, as stated in our issue of Oct. 21. Walter E. Gilham is Engr.

Colo., Colorado Springs—Atchison, Topeka & Santa Fé R.R. contemplates building depot and hotel. Estimated cost, $500,000.

Colo., Loveland—Plans being prepared by Roeschlaub & Fuller, Arch., 310 Foster Bldg., Denver, for high school. Estimated cost, $85,000. Noted Oct. 21 and Nov. 11.

Colo., Pueblo—Bids will be received until 10 a.m., Dec. 15, by Colorado State Board of Corrections for three buildings at Colorado Insane Asylum.

N. M., Santa Fé—Plans prepared for office building for Santa Fé Water and Light Co. Estimated cost, $100,000.

Idaho, Nampa—Election will soon be held to vote on $50,000 bonds for high school.

Wash., Seattle—Bids will soon be received by Thompson & Thompson, Arch., Mutual Life Bldg., Seattle, for four-story, 60x120-ft. hotel, store and lodge building for use of Chinese Masons. Estimated cost, $60,000.

Wash., Seattle—Plans being prepared by B. M. Pretica, Arch., for a 180x180-ft. reinforced-concrete natatorium building. Estimated cost, $250,000. C. D. Stimson, interested.

Wash., Tacoma—Knights of Columbus will build club house on C St. Estimated cost, $50,000.

Ore., Baker—Bonds for $125,000 voted for high school. Noted Nov. 18.

Ore., Portland—First Christian Congregation plans to build new church. Estimated cost, $50,000.

Calif., Los Angeles—Bids will be received until 9 a.m., Dec. 9, for group of buildings at Hooper and Compton Ave. and 38th St. to be known as Jefferson High School. Estimated cost, $200,000. Norman F. Marsh, Broadway Central Bldg., Arch. Noted Sept. 16.

Calif., Los Angeles—Loma Linda College of Medical Evangelists will build hospital, clinic and students' home. Estimated cost, $75,000.

Calif., Yosemite—Desmond Commissary Co. plans to build a hotel in Yosemite Valley. Estimated cost, $150,000.

Que., Hull—Plans being prepared for church for Sacred Heart Congregation. Estimated cost, $75,000.

Que., Maisonneuve—School Commission will build school to replace one destroyed by fire. Estimated cost, $400,000.

Que., Westmount—Kenneth G. Rea, Arch., will prepare plans for municipal building. Estimated cost, $150,000.

Ont., London—Plans being prepared for constructing an addition and altering building of Canadian Theaters Co. Estimated cost $100,000.

Ont., Orillia—Citizens defeated $50,000 bonds for city hall. Noted Nov. 4.

Ont., Toronto—Toronto Hydro-Electric Commission, 226 Young St., contemplates office building. Estimated cost, $450,000.

B. C., Vancouver—Plans prepared by F. Townley, Arch., St. Paul, for depot for Great Northern Railway. Estimated cost between $250,000 and $400,000.

B. C., Victoria—Election will soon be held to vote on $75,000 bonds for natatorium.

Bids In and Contracts Awarded

Mass., Danvers—All bids received for school on Maple St. rejected by Trustees of Essex County Agricultural School.

R. I., Providence—(Official)—General contract for school at Cole and Luzon Ave. awarded to W. WILLIAMS, Providence, at $118,000. Noted Nov. 11.

N. Y., Buffalo—Buffalo General Hospital awarded contracts for three-story, 55x80-ft. service building on High St. to BUFFALO STRUCTURAL STEEL CO., structural steel; CHARLES H. EVERITT, masonry. Estimated cost, $50,000.

N. Y., Buffalo—George Baker Long, Worcester, Mass., at $372,500, submitted lowest bid for general contract for four buildings for hospital for city at Grider St. and Kensington Ave. Noted Nov. 11.

N. Y., Mineola—Nassau County Trust Co. awarded general contract to HARTEL & DAVIES, 353 East 78th St., New York, for one-story bank building. Estimated cost, $75,000.

N. Y., Mt. Vernon—New York Central R.R. awarded contract for passenger station to R. H. HOWES CONSTRUCTION CO.

N. J., East Rutherford—Contract for school awarded to MAGEE CONSTRUCTION CO., Newark, N. J.

N. J., Roselle Park—(Elizabeth post office)—(Official)—Contract for three-story high school awarded to CHARLES FLOCKEN, Elizabeth, at $60,000. Noted Nov. 25.

Penn., Clearfield—School District of Clearfield awarded general contract to W. A. LUKINS, Clearfield, for two-story, 62x140-ft. high school. Estimated cost, $80,000.

Penn., Philadelphia—General contract awarded to JOHN McSHAIN, 1610 North St., for two-story, 64x121-ft. school and chapel for Parish of St. Carthage. Estimated cost, $40,000.

Penn., Pittsburgh—General contract awarded to ROSE & FISHER for five-story, 82x114-ft. community building for First U. P. Church. Estimated cost, $300,000.

Va., Norfolk—Contract for building for Park Place Methodist Church awarded to J. A. TURPIN, Norfolk.

N. C., Charlotte—Central Realty Co. awarded contract to TRAVERS-WOOD CO. for building on West Trade St. to be occupied by Buick Motor Co. and Overland Carolinas Co. Estimated cost, $50,000.

Ohio, Cincinnati—Contract for bank and office building for Provident Savings Bank and Trust Co. awarded to H. HARIG & CO., Cincinnati. Estimated cost, $100,000. Noted Sept. 23.

Ohio, Cleveland—General contract awarded to JAMES H. WELLS CO., Marshall Bldg., Cleveland, for two-story addition to McGregor Memorial Home for Aged at Terrace Ave. and Lee Rd. Estimated cost, $50,000. Noted Nov. 18.

Ohio, Columbus—Contract for homeopathic hospital at Ohio State University awarded to DAWSON CONSTRUCTION CO., May Bldg., Pittsburgh, Penn., at $40,000. Noted Nov. 11 and 25.

Ohio, Kilbourne—Contract for school awarded to L. R. DELAUDER, Marion, at $42,000.

Ind., Indianapolis—Contract for coliseum for city awarded to H. W. KLAUSMAN CO., at $123,660.

Mich., Holland—BYERS & CO., Kalamazoo, at $50,000, awarded contract for building for First State Bank.

Ill., Chicago—Contract for freight station for Pennsylvania R.R. awarded to GEO. A. FULLER CO. Estimated cost, $1,300,000.

Ill., Orcola—Board of Education awarded general contract to H. B. KRAUEL, Dale Bldg., Danville, Ill., for two-story high school. Estimated cost, $80,000.

Ill., Peoria—Contract for building for Merchants & Illinois National Bank at 217-19 South Adams St. awarded to V. JOBST & SONS. Estimated cost, $75,000.

Iowa, Sioux City—Contract for church at 19th and Nebraska St. for First Methodist Episcopal Church awarded to DUBEL & ANDERSON, 514 Jackson St., Sioux City. Estimated cost, $65,000.

Iowa, Sioux City—Contract for freight shed and terminal at Third and Jackson St. for Chicago & Northwestern Railway awarded to GIMBLE CONSTRUCTION CO., Chicago, Ill. Estimated cost, $185,000. Noted Oct. 14.

Minn., Duluth—General contract awarded to H. B. RICKETTS, Danville, Ill., for two-story, 120x200-ft. high school building. Estimated cost, $100,000. Noted Nov. 25.

Minn., St. Paul—Lowest bid received for Minnesota Historical Society building submitted by O. Swenson, St. Paul, at $463,155. Noted Sept. 23 and Oct. 28.

Neb., Omaha—Ford Hospital Co., 604 City National Bank Bldg., awarded general contract for three-story, 60x110 ft. hospital to BUSK & WIND, 543 Ramge Bldg. Estimated cost, $150,000.

Neb., Omaha—Coad Real Estate and Investment Co., 402 First National Bank Bldg., awarded general contract to ALEXANDER BECK, for three-story, 60x80-ft. hotel. Estimated cost, $40,000.

Mo., Kansas City—Contract for an addition to the German Hospital at 23rd, Holmes and McCoy St. awarded to PRATT-THOMPSON CONSTRUCTION CO., 500 Republic Bldg., Kansas City. Estimated cost, $250,000.

Mo., St. Louis—Riverview Club awarded contract to GILSONITE CONSTRUCTION CO. for three-story club house at 10,952 Riverview Dr.

Tex., Carlsbad—Texas Tuberculosis Sanitarium awarded contract for building to B. T. & C. N. DAVIS, Ft. Worth, Tex., at $58,312.

Tex., El Paso—Pitts & Denning, at $62,000 submitted lowest bid for building addition to Alta Vista School.

Tex., Palestine—Contract for high school awarded to A. W. FLINT, Ft. Worth, at $65,000. Noted Oct. 21.

Tex., San Antonio—Contract for building City and County Hospital awarded to H. N. JONES CONSTRUCTION CO., at $200,000.

Okla., Wilburton—Contract for court house awarded to A. EASLEY and H. R. HARDER, Wilburton.

Wash., Seattle—Board of Regents of University of Washington awarded general contract for home economics building to FINNE & GJARDE, 725 Northern St., at $143,254.

Calif., Berkeley—University of California awarded contract for stone work on Benjamin Ide Wheeler Hall to RAYMOND GRANITE CO., San Francisco, at $225,000. Noted Oct. 14.

Calif., Visalia—Southern Pacific Co. awarded contract for passenger depot to E. E. ETHERTON, Monadnock Bldg., San Francisco, at $43,000.

Ont., Toronto—(Official)—Contract for seven-story office building at Church and Court St. for Imperial Oil Co., Toronto, awarded to THOMPSON & STARRETT, 49 Wall St., New York, N. Y. Estimated cost, $150,000. Noted Nov. 4.

CALUMET SAG CHANNEL, CHICAGO, ILL.

Bids were received by the Sanitary District of Chicago, Oct. 12, for construction of Sections 13 and 14 of the Calumet Sag Channel from (A) Porter Bros. Co., Portland, Ore.; (B) A. Guthrie & Co., Inc., St. Paul, Minn.; (C) Winston Bros. Co., Minneapolis, Minn.; (D) Byrne Bros. Dredging and Engineering Co., Chicago; (E) Dunn-McCarthy Co., Chicago; (F) Marquette Construction Co., Chicago; (G) Schnable & Quinn, Chicago; (H) Bates & Rogers Construction Co., Chicago; (I) Flick Construction Co., Chicago; (J) Walsh Construction Co., Davenport, Iowa; (K) T. J. Forscher Contracting Co., Lemont, Ill.; (L) J. J. O'Heron & Co., Chicago; (M) Robert Grace Contracting Co., Pittsburgh, Penn.; (N) James O. Heyworth, Chicago. The item bids were as follows:

Section 13	A	B	D	E	F	H	I	J	K	O
500,000 cu.yd. glacial drift	$0.45	$0.33	$0.44	$0.36	$0.40	$0.45	$0.37	$0.3325	$0.37	$0.284
55,000 cu.yd. glacial drift at B. & O.-G. T. W. crossing	.60	.59	.79	.54	.85	.90	.52	.35	.50	.284
30,000 cu.yd. glacial drift at Rock Island crossing	.60	.59	.69	.52	.85	.90	.50	.35	.60	.284
60,000 cu.yd. solid rock	.95	.90	1.35	.85	1.15	.75	.98	.84	.90	.80
4,000 cu.yd. solid rock at B. & O.-G. T. W. crossing	1.75	1.75	1.60	2.00	1.50	1.25	2.00	1.75	1.25	.80
2,000 cu.yd. solid rock at Rock Island crossing	1.75	1.75	1.60	2.00	1.50	2.00	2.50	1.75	1.25	.80
50,000 sq.ft. channeling	.30	.30	.33	.30	.38	.45	.33	.35	.35	.40
500 sq.yd. rip-rap slopes	1.00	1.50	1.25	.50	1.00	2.00	1.25	1.38	2.50	2.50
2,500 cu.yd. number one concrete	7.50	6.50	12.75	6.50	9.00	8.30	7.75	7.40	7.50	7.50
1,500 cu.yd. number one concrete at B. & O.-G. T. crossing	8.00	7.10	12.75	6.50	9.00	7.45	9.25	7.40	8.50	7.50
200 cu.yd. number one concrete at Rock Island crossing	8.00	7.10	12.75	6.50	9.00	8.05	9.25	7.40	8.50	7.50
70,000 cu.yd. number two concrete	5.60	5.10	5.59	5.00	5.95	6.20	4.85	4.60	5.25	4.75
8,000 cu.yd. number two concrete at B. & O.-G. T. W. crossing	6.00	5.60	5.59	5.75	7.00	5.85	7.50	5.50	7.50	4.75
3,000 cu.yd. number two concrete at Rock Island crossing	6.00	5.60	5.59	5.75	7.00	6.45	7.50	5.75	7.50	5.15
80 cu.yd. coping concrete	11.50	8.00	15.00	7.00	14.00	11.00	11.00	8.00	10.00	12.00
40 cu.yd. granite concrete	12.00	9.00	16.00	10.00	18.00	13.00	12.00	9.00	15.00	18.00
5,000 cu.ft. concrete foundation columns	.60	.55	.50	.60	1.00	1.15	.75	.60	.50	.70
10,000 cu.ft. concrete cylinders at Rock Island crossing	.60	.55	.60	.60	1.00	1.10	1.00	.90	.60	.80
725 lin.ft. concrete railing	1.75	1.60	2.50	1.00	2.50	3.75	3.75	3.00	3.00	2.50
250,000 lb. reinforcing metal	.03	.035	.0350	.0325	.04	.0375	.0325	.0275	.04	.035
8,000 sq.yd. macadam pavement	1.75	1.10	1.25	1.50	1.25	2.25	1.25	1.00	1.50	1.25
3,000 sq.yd. cinder sidewalk	2.50	1.00	1.00	.75	.90	1.00	1.00	.20	.50	.60
Erection of Ann street bridge (lump sum)	3,400.00	3,100.00	3,720.00	1,500.00	3,100.00	3,500.00	3,410.00	3,390.00	3,500.00	3,410.00
Erection of Western avenue bridge (lump sum)	6,000.00	5,000.00	5,976.00	2,000.00	5,000.00	5,000.00	5,478.00	5,050.00	5,500.00	5,478.00
Erection of Chicago street bridge (lump sum)	3,700.00	3,100.00	3,720.00	1,500.00	3,100.00	3,500.00	3,410.00	3,640.00	3,750.00	3,410.00
Erection of Division street bridge (lump sum)	4,000.00	3,300.00	4,014.00	1,500.00	3,400.00	3,800.00	3,680.00	4,000.00	4,250.00	3,680.00
Stony Creek timber flume	8,500.00	10,000.00	5,000.00	10,000.00	7,000.00	10,500.00	9,500.00	10,800.00	12,000.00	10,260.00
Extended totals	$970,418	$798,490	$955,822	$794,310	$964,902	$991,033	$839,981	$747,640	$859,375	$720,170

Section 14	A	B	C	D	F	G	H
550,000 cu.yd. glacial drift	$0.42	$0.2825	$0.31	$0.37	$0.35	$0.415	$0.42
85,000 cu.yd. solid rock	.95	.80	.75	1.40	1.15	1.09	.76
60,000 sq.ft. channeling	.30	.25	.37	.33	.38	.432	.45
2,000 sq.yd. rip-rap slopes	1.00	1.50	2.00	1.25	1.00	1.50	2.00
7,000 cu.yd. number one concrete	7.50	6.40	6.25	12.75	9.00	6.56	8.65
80,000 cu.yd. number two concrete	5.60	5.00	4.85	5.59	5.95	5.83	5.68
120 cu.yd. coping concrete	11.50	8.00	12.00	15.00	14.00	6.70	13.50
3,000 cu.ft. concrete foundation columns	.60	.55	.90	.50	.95	.80	1.15
125 lin.ft. concrete railing	1.75	1.50	3.25	2.50	2.50	4.00	3.75
500,000 lb. reinforcing metal	.03	.03	.03	.035	.04	.045	.035
2,500 lin.ft. roadway construction	8.00	2.50	3.00	2.50	2.50	4.50	2.80
Ashland avenue bridge (fabrication and erection) (lump sum)	7,000.00	7,500.00	7,500.00	8,455.80	8,000.00	9,500.00	10,100.00
Controlling works road bridge (fabrication and erection) lump sum)	3,000.00	2,400.00	2,500.00	2,649.60	2,500.00	3,000.00	3,100.00
Controlling works foot bridge (fabrication and erection) lump sum)	1,500.00	1,400.00	1,500.00	1,584.00	1,500.00	1,600.00	1,900.00
Sector gates and collateral work (fabrication and erection) lump sum)	75,000.00	75,000.00	80,000.00	85,320.00	76,000.00	82,465.00	118,000.00
Miscellaneous work collateral to the controlling works (lump sum)	2,000.00	2,500.00	2,500.00	2,421.60	2,500.00	3,450.00	3,000.00
Miscellaneous work for transformer house and sewage discharge chamber (lump sum)	4,200.00	5,000.00	3,700.00	4,585.20	3,800.00	5,980.00	6,100.00
Electrical equipment (lump sum)	17,000.00	15,000.00	15,600.00	17,520.00	18,000.00	16,790.00	20,000.00
Ten-foot concrete sewer	30.00	25.00	30.00	40.00	30.00	37.85	36.40
Sewer junction (lump sum)	3,000.00	1,800.00	3,750.00	5,500.00	700.00	6,900.00	2,800.00
Additional structural steel, per lb	.05	.06	.0475	.052	.06	.043	.08
Additional machinery, steel and iron, per lb	.10	.14	.10	.108	.14	.09	.18
Additional steel castings, per lb	.09	.12	.09	.098	.12	.082	.16
Additional iron castings, per lb	.08	.07	.07	.077	.07	.063	.09
Additional bronze and babbitt, per lb	.75	.60	.55	.60	.60	.50	.75
Extended totals	$992,948	$828,822	$845,896	$1,049,448	$1,007,742	$1,041,391	$1,048,236

Section 14	I	J	K	L	M	N
550,000 cu.yd. glacial drift	$0.31	$0.35	$0.33	$0.30	$0.24	$0.247
85,000 cu.yd. solid rock	.78	.84	.85	.90	.64	.80
60,000 sq.ft. channeling	.33	.35	.35	.425	.24	.40
2,000 sq.yd. rip-rap slopes	1.25	1.28	2.50	1.10	1.25	2.50
7,000 cu.yd. number one concrete	7.90	7.00	7.50	8.00	9.00	7.50
80,000 cu.yd. number two concrete	5.00	4.60	5.00	5.55	5.95	5.00
120 cu.yd. coping concrete	11.00	7.20	10.00	10.00	15.00	12.00
3,000 cu.ft. concrete foundation columns	.75	.60	.50	.60	.50	.70
125 lin.ft. concrete railing	3.75	3.00	3.00	1.30	2.50	2.50
500,000 lb. reinforcing metal	.0325	.0275	.04	.03	.03	.035
2,500 lin.ft. roadway construction	2.70	2.00	2.00	2.00	2.25	2.00
Ashland avenue bridge (fabrication and erection) (lump sum)	8,154.00	8,850.00	10,000.00	8,000.00	6,375.00	8,400.00
Controlling works road bridge (fabrication and erection) lump sum)	2,588.00	2,575.00	3,000.00	2,500.00	1,900.00	2,800.00
Controlling works foot bridge (fabrication and erection) lump sum)	1,400.00	1,870.00	2,000.00	1,400.00	1,263.00	1,600.00
Sector gates and collateral work (fabrication and erection) lump sum)	78,040.00	96,440.00	75,000.00	87,000.00	77,770.00	80,000.00
Miscellaneous work collateral to the controlling works (lump sum)	2,247.00	2,780.00	3,500.00	3,500.00	2,143.00	2,742.00
Miscellaneous work for transformer house and sewage discharge chamber (lump sum)	4,957.00	6,210.00	7,000.00	6,000.00	3,453.00	4,400.00
Electrical equipment (lump sum)	17,000.00	15,000.00	15,000.00	15,500.00	16,060.00	16,000.00
Ten-foot concrete sewer	28.50	35.00	25.00	18.00	19.50	14,000.00
Sewer junction (lump sum)	29,95.00	3,000.00	3,500.00	1,500.00	1,000.00	3,000.00
Additional structural steel, per lb	.05	.06	.05	.06	.043	.06
Additional machinery, steel and iron, per lb	.12	.15	.09	.15	.09	.14
Additional steel castings, per lb	.12	.12	.10	.12	.082	.12
Additional iron castings, per lb	.08	.08	.07	.06	.063	.10
Additional bronze and babbitt, per lb	.70	.60	.55	.60	.50	.60
Extended totals	$868,007	$874,174	$887,325	$923,522	$882,741	$844,644

CATALOG NOTICES

Tippett & Wood, Phillipsburg, N. J. Catalog. Water towers, stand pipes, etc. Illustrated, 62 pp., 5½x8½ in.

M. Smolensky Mfg. Co., Cleveland, Ohio. Catalog. Suction and check valves. Illustrated, 16 pp., 6x9 in.

The James Leffel & Co., Springfield, Ohio. Catalog No. 65. Steam engines and boilers. Illustrated, 32 pp., 8½x11 in.

Harrison Safety Boiler Works, Philadelphia, Penn. Pamphlet. "Finding and Stopping Waste in Modern Boiler Rooms by Use of Cochrane Meters." Illustrated, 68 pp., 6x9 in.

Union Iron Works, Hoboken, N. J. Catalog No. 34. Pile driving machinery. Illustrated, 126 pp., 7x10 in.

The Richardson-Phenix Co., Milwaukee, Wis. Bulletin No. 50. Phenix force feed lubricators. Illustrated, 12 pp., 8½x11 in. Bulletin No. 60. Richardson Model M sight feed oil pump. Illustrated, 20 pp., 8½x11 in.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Penn. Booklet. "Facts Concerning Sterling Transits and Levels." Illustrated, 24 pp., 4x7 in.

The Foxboro Co., Foxboro, Mass. Bulletin No. 98. Recording gauges for all purposes. Illustrated, 40 pp., 8x10½ in.

The Gardner Governor Co., Quincy, Ill. Pamphlet. "Helpful Hints on Air Compressor Installations." Illustrated, 8 pp., 4x9 in.

Allis-Chalmers Mfg. Co., Milwaukee, Wis. Bulletin No. 1097. Power transformers. Illustrated, 24 pp., 8x10½ in. Bulletin No. 1636. Hydraulic turbines and accessories. Illustrated, 56 pp., 8x10½ in.

Contracts to Be Let

Bids received until Dec. 14, 1915.

Drainage Works

Tempe, Ariz.

The Board of Directors of Drainage District No. 1, of Maricopa County, Arizona, will receive sealed bids for the construction of the portion of the proposed drainage works, hereinafter particularly described, until 2 o'clock p.m., Tuesday, December 14, 1915, at the office of the Board, at Tempe, Arizona.

The portion of the work for which bids will be received consists:

First: Of a main open drain ditch, approximately 8.4 miles in length; the upper or Northerly portion thereof approximately 40,350 feet in length, having a depth of from 6 feet to 12.5 feet, and the lower or Southerly portion thereof approximately 4,000 feet in length, having a depth of from 6 feet to 1 foot.

Said ditch begins at a point about 100 feet South and 55 feet East of the Northwest corner of Section 35 in T. 1 N. R. 4 E. in Maricopa County, Arizona, and extends South to a point near the East quarter of Section 22 T. 1 S. R. 4 E.; thence in a Southwesterly direction to Culvert B 16 on the line of the Arizona Eastern Railroad.

Second: Eleven structures consisting principally of reenforced concrete to be installed at various points where the line of the proposed ditch intersects highways, canals and ditches.

The portions of the work above referred to are particularly described in the drawings and specifications therefor adopted by said Board, which are hereby referred to for a more particular description of the work.

Each bid must be submitted on form furnished by the Board for that purpose and accompanied by a certified check, payable to Alfred H. Oeltjen, Secretary of the Board, for 5% of the gross amount of the bid.

Drawings and specifications for the above work are on file and can be seen at the office of the Board and at the office of the Engineer, L. G. Knipe, 16 South Second Avenue, Phoenix, Arizona, and bidders may obtain sets of these upon application and payment of $10.00.

The bids will be opened at the office of the Board at 2:00 o'clock p.m., Tuesday, December 14, 1915, and the contract will be let to the lowest responsible bidder, but the Board expressly reserves the right to reject any or all bids, or any part of any bid.

Dated at Tempe, Arizona, November 12, 1915.

J. W. MILLER,
ALFRED H. OELTJEN,
I. M. SAYLOR,
Board of Directors, Drainage District No. 1.

Bids received until Dec. 11, 1915.

Aluminum Sulphate

OFFICE OF SUPERINTENDENT CITY WATER WORKS,
Room 112, City Hall.

Richmond, Va.

Sealed proposals will be received at this office until 12 M. December 11, 1915, for furnishing this department with aluminum sulphate, high basicity for water clarification, containing seventeen per cent. aluminum oxide, delivered f. o. b. Korah Station, Chesapeake and Ohio Railway, in barrels, at such time and in such quantities as the superintendent may require. Bidders are requested to bid on one, two and three years' contract. Estimated quantity eight hundred (800) tons per year.

Further information can be obtained at this office. The Administrative Board reserves the right to reject any or all proposals or any part of any or all proposals, also to increase or decrease the specified quantities twenty per cent.

A certified check for two hundred dollars, payable to the City Treasurer, must accompany each bid.

Proposals must be submitted in sealed envelopes, containing the name and address of the bidder, directed to the Administrative Board, and in the lower left-hand corner must be written "Proposals for Aluminum Sulphate."

Bond will be required on contract.

E. E. DAVIS, Superintendent.

Bids received until Dec. 21, 1915.

Mont Clare Bridge Over Schuylkill River

BETWEEN PHOENIXVILLE AND MONTCLARE, PENN.

Sealed proposals will be received by the Commissioners of Montgomery and Chester Counties, at the County Commissioners' Office, Norristown, Pennsylvania, until 10 A.M., December 21, 1915, for the construction of a reinforced-concrete arch bridge of five spans over the Schuylkill River, connecting Phoenixville and Mont Clare, Pennsylvania.

The plans and specifications including form of proposal and bond may be seen at the County Commissioners' Office, Norristown, Pennsylvania, and at the County Commissioners' Office at West Chester, Pennsylvania, and at the offices of "Engineering News" and "Engineering Record," in New York City.

Copies of the plans and specifications may be obtained from the Consulting Engineer, B. H. Davis, Whitehall Building, No. 17 Battery Place, New York City, upon deposit of Twenty-five ($25.00) Dollars, which sum will be refunded upon the return of all papers in good condition.

Each proposal must be accompanied by a certified check drawn to the order of the Commissioners of Montgomery and Chester Counties for the lump sum of Five Thousand ($5,000.00) Dollars, and by a guaranty signed by an acceptable surety company, in separate enclosures, that the bidder will, if awarded the contract, enter, within ten days, into a contract, and furnish satisfactory surety company bond for the construction of the bridge.

The certified checks of the unsuccessful bidders will be returned as soon as the contract is awarded. A satisfactory surety company bond for seventy-five (75%) per cent. of the contract price will be required of the successful bidder.

All regular proposals accompanied by certified checks and guaranties in separate enclosures, received at 10 A.M. will be publicly opened and the bids tabulated at 11 A.M., December 21, 1915, in the County Commissioners' Office, Norristown, Pennsylvania. The right is reserved to reject any and all bids or parts thereof not deemed to the advantage of the Counties.

JOHN N. JACOBS,
Controller of Montgomery County.
ISAAC Y. ASH,
Controller of Chester County.

Bids received until Dec. 8, 1915.

Mullica River Bridge

Atlantic City, N. J.

Sealed proposals will be received for building a bridge, 742 feet long, composed of creosoted pile trestle approaches, steel trusses and bascule draw span with wood block floor and concrete substructure, over the Mullica River at Chestnut Neck, near New Gretna, N. J., according to plans and specifications on file with the Engineers for Atlantic and Burlington Counties. The bids will be received by the Boards of Chosen Freeholders of the Counties of Atlantic and Burlington at the G. A. R. Hall, New York Ave., Atlantic City, N. J., at 12 o'clock noon on Wednesday, December 8th, 1915, and opened immediately thereafter.

Plans and specifications may be obtained from A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J., or from James Logan, Mount Holly, N. J., by depositing $5.00. This sum will be refunded if plans and specifications are returned in good condition by 12 o'clock noon, December 9th, 1915, otherwise not.

The right is reserved to reject any or all bids.

A. H. NELSON,
Atlantic County Engineer.
JAMES LOGAN,
Chairman Atlantic County Bridge Committee.
Burlington County Engineer.
JOHN K. JOHNSON,
ALFRED I. DAVIS,
Director, Burlington County.

Construction News

NOVEMBER BUILDING RETURNS

Although normally at this time of the year building operations are usually light, this month's figures compiled from 65 cities all over the country, show that building permits filed practically double what they did a year ago last November. Our figures show that about $52,000,000 worth of permits were granted during last month against about $26,000,000 one year ago. During the first part of this year building permits were way below what they were a year ago. Our records for September show that we had about $57,000,000 permits less granted for the first eight months of the year than we did in 1914. November's figures show that we have caught up all this difference, and are now about $5,000,000 ahead of last year. The doubling of value of the permits granted is general all over the country, with the exception of the Western States which showed an increase of only about $350,000. Below is given a table of contemplated building operations from representative cities throughout the country.

EASTERN STATES

	Month of November		First Eleven Months of Year	
	1915	1914	1915	1914
Albany, N. Y.	$588,305	$301,578	$4,313,130	$5,864,278
Bridgeport, Conn.	490,973	364,859	7,980,974	3,487,332
Buffalo, N. Y.	788,000	498,000	10,897,000	10,362,006
Elizabeth, N. J.	166,609	98,388	1,050,081	1,313,415
Harrisburg, Penn.	84,275	34,000		
Hartford, Conn.	707,709	399,385	5,285,305	3,759,876
Hoboken, N. J.	90,580	1,650	682,014	767,327
Jersey, N. J.	610,758	176,804	4,825,081	3,307,770
Newark, N. J.	641,385	373,427	7,822,132	9,165,777
New Bedford, Mass.	135,119	144,700	3,113,898	2,835,077
New Haven, Conn.	966,080	315,755	6,821,022	3,884,872
New York, N. Y.				
Bronx	3,107,900	314,750	25,897,950	20,045,343
Brooklyn	4,282,576	1,423,840	31,398,888	36,976,690
Manhattan	3,894,400	1,505,800	61,047,100	44,656,965
Queens	1,658,415	1,316,220	18,463,453	17,500,145
Passaic, N. J.	99,975	22,410	1,024,857	850,939
Paterson, N. J.	149,585	46,961	1,461,505	1,475,406
Philadelphia, Penn.	2,408,665	1,240,530	36,840,955	33,929,470
Pittsburgh, Penn.	663,312	777,368	10,341,414	14,721,582
Portland, Maine	115,200	77,050	1,519,329	1,136,295
Reading, Penn.	21,025	20,350	996,100	1,138,175
Rochester, N. Y.	817,254	397,830	8,458,833	8,369,658
Scranton, Penn.	322,164	88,852	1,693,264	1,640,757
Springfield, Mass.	650,050	179,502	5,455,391	4,707,532
Syracuse, N. Y.	608,324	235,365	4,302,321	2,693,570
Utica, N. Y.	151,035	95,300	2,022,570	1,707,795
Totals	$24,249,673	$10,362,474	$263,714,577	$236,298,052

SOUTHERN STATES

	Month of November		First Eleven Months of Year	
	1915	1914	1915	1914
Atlanta, Ga.	$284,647	$228,104	$4,330,180	$4,482,628
Birmingham, Ala.	121,904	76,710	1,708,926	3,042,943
Chattanooga, Tenn.	52,532	28,258	526,935	1,047,137
Ft. Worsh, T.s.	124,243	104,840	1,085,667	1,920,418
Houston, Tex.	179,461	76,912	1,595,814	3,372,531
Louisville, Ky.	246,030	139,900	3,596,915	4,201,415
Memphis, Tenn.	191,485	133,275	2,586,098	2,894,564
Norfolk, Va.	138,926	64,255	1,666,731	2,060,611
Richmond, Va.	275,251	130,638	2,959,565	3,070,843
Tampa, Fla.	100,335	54,361		
Washington, D. C.	594,925	419,544	11,197,505	8,529,744
Totals	$2,309,739	$1,667,372	$31,254,336	$34,622,834

CENTRAL STATES

	Month of November		First Eleven Months of Year	
	1915	1914	1915	1914
Akron, Ohio	$535,105	$171,585	$4,281,170	$3,597,580
Canton, Ohio	138,250	43,675	1,844,690	1,557,415
Chicago, Ill.	10,861,600	6,513,150	88,152,280	77,048,060
Cincinnati, Ohio	790,965	336,210	12,198,679	8,576,113
Cleveland, Ohio	2,434,715	2,153,645	29,590,699	26,092,185
Columbus, Ohio	347,350	377,385	4,819,995	5,889,861
Davenport, Iowa	33,143	57,075		
Duluth, Minn.	204,371	189,510	2,540,893	2,798,828
Evansville, Ind.	277,383	57,086	1,316,025	1,270,390
Grand Rapids, Mich.	335,325	171,425	2,544,217	3,496,169
Indianapolis, Ind.	438,823	265,190	6,550,188	7,573,348
Kansas City, Kan.	86,802	50,435	926,654	1,039,138
Kansas City, Mo.	724,115	341,220	10,074,880	9,980,370
Milwaukee, Wis.	1,132,925	591,583	11,588,596	9,390,511
Minneapolis, Minn.	1,539,225	703,615	16,054,831	14,693,125
Oak Park, Ill.	359,420	216,140	3,033,233	2,158,880
Omaha, Neb.	656,075	133,583	4,937,175	4,393,981
Peoria, Ill.	197,575	600,200		
St. Louis, Mo.	782,943	650,029	10,800,043	12,188,618
St. Paul, Minn.	619,701	710,697	9,861,934	14,148,642
Toledo, Ohio	535,750	276,676	7,364,249	5,945,237
Youngstown, Ohio	203,790	79,275	2,463,242	2,817,816
Totals	$23,135,351	$12,689,398	$204,312,673	$214,676,267

WESTERN STATES

	Month of November		First Eleven Months of Year	
	1915	1914	1915	1914
Denver, Colo.	$312,085	$134,410		
Los Angeles, Calif.	1,000,239	785,310	10,999,699	16,631,242
Oakland, Calif.	315,767	281,769	4,556,420	4,340,945
Salt Lake City, Utah	156,705	107,232	2,091,260	2,811,796
Spokane, Wash.	46,475	55,880	1,165,977	965,347
Tacoma, Wash.	140,305	270,655	800,116	2,116,251
Totals	$1,971,576	$1,635,256	$19,613,472	$26,865,581

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—International Railway, Buffalo, applied to City Council for franchise to build a double-track extension on Washington St., between Ohio and Perry St., and on Ohio St., between Washington and Main St.

Pennsylvania—Harrisburg Traction Co. granted right-of-way by Council of East Berlin for a trackless trolley line between East Berlin and Dover. D. B. Noist, Harrisburg, Ch. Engr.

Pennsylvania—Slate Belt Electric Street Railway Co., Penn Argyl, contemplates 15 miles of new line from Wind Gap to Stroudsburg, Penn., during 1916. W. J. Mutton, Penn Argyl, Ch. Engr.

West Virginia—Manns Creek & Meadow River Co., recently incorporated with $100,000 capital stock, plans to build a railway from Chesapeake & Ohio Railway on east side of New River to Russellville, W. Va., about 10 or 15 miles. H. B. Smith, Charleston, interested.

North Carolina—Big Sandy & Cumberland R.R. contemplates line from Matney, N. C., to Grundy, Va., 10 miles. G. W. Litz, Gen. Mgr., Columbus, Ohio.

North Carolina—Roanoke River Ry. plans line from Townsville, N. C., to some point on Southern Ry., about 11 miles. G. W. Marrow, Pres. and Gen. Mgr., Townsville, N. C.

Georgia—Flemington, Hinesville & Western R.R. Co. plans to construct a railway from Hinesville to Glennville, Ga., about 22 miles. J. B. Way, Hinesville, Pres. and Gen. Mgr.

Georgia—Ocilla Southern R.R. having surveys made for extension line from Perry to Macon, about 30 miles. D. C. Smith, Ocella, Ga., Gen. Mgr.

Florida—Birmingham, Columbus & St. Andrews Ry. Co. plans extensions from Chipley to Graceville, Fla., 12 miles, and from Southport to Bunkers Cove, Fla., 23 miles. J. M. Owsley, Chipley, Fla., Audr. and R. D. Reeder, Chipley, Superv.

Louisiana—Gulf, Sabine & Red River R.R. contemplates 35-mile extension of its line in Louisiana. This line is owned by the Lutcher & Moore Lumber Co., Orange, Tex.

Louisiana—New Iberia & Northern R.R. contemplates line from Oakland to New Orleans, La., 93 miles, from Port Barre, La., to Sabine River, 107 miles, with branches to salt mines at Weeks and Avery Islands. R. J. Lockwood, New Iberia, La., Vice-Pres. and Gen. Mgr.

Louisiana—Vicksburg, Alexandria & Southern Ry. contemplates extension from Thomas to Harrisonburg, La., about 50 miles. A. D. Alderson, Alexandria, La., Gen. Mgr.

Tennessee—Nashville Railway and Light Co. plans to build a branch line from the 19th St. line between Lillian and Rothschild St. into Shelby Park, Nashville. J. P. W. Brown, Nashville, Ch. Engr.

Kentucky—Kentucky Midland R.R. Co. plans to build an extension from Summers to Dawson Springs, via Earlington, Ky., about 22 miles. M. M. Wheeler, Central City, Gen. Mgr. and Asst. Treas.

Illinois—A movement is being agitated to have the Illinois Traction System construct a railway from Edwardsville east to Marine and Highland.

Illinois—Belleville & Mascoutah Traction Co. plans to construct about 10 miles of single-track line between Belleville and Mascoutah, Ill., during 1916. David O. Thomas, Belleville, Engr.

Iowa—Tri-City Railway and Light Co., Davenport, contemplates building an extension into the territory southeast of Moline. B. J. Denman, Davenport, Vice-Pres.

Kansas—Ft. Scott & Pittsburg Ry. plans to build a line from Ft. Scott to Pittsburg, about 36 miles. Proposed line will connect Ft. Scott, Garland, Arcadia, Mulberry, Frontenac and Pittsburg. H. A. Cooper, Redfield Bldg., Act. Secy.

Kansas—Lawrence, Topeka & Western R.R. Co., recently incorporated with $100,000 capital stock, will build electric railway from Lawrence to Topeka, Kan. W. R. Stubbs, interested.

South Dakota—John Rosholt, Minneapolis, Minn., is interested in project to build railway from Bruton, S. D., to Ortonville, Minn.

Missouri—Kansas City, Ozark & Southern Ry. contemplates extension of about 30 miles. John W. Byng, Ava, Mo., Audr. and Gen. Mgr.

Texas—Altus, Lubbock, Roswell & El Paso R.R. Co. contemplates line from Lubbock to Memphis, Tex., about 100 miles. E. C. Noble, Houston, Tex., Pres. and Gen. Mgr.

Texas—Asherton & Gulf Ry. plans to extend line from Asherton to Eagle Pass, Tex., 52 miles. L. V. Richardson, Asherton, Tex., Pres. and Gen. Mgr.

Texas—Beaumont Traction Co. plans to extend its Sabine St. line on Doucette St. to Grove St., Beaumont. E. J. Emerson, Beaumont, Gen. Supt.

Texas—Jefferson & Northwestern Ry. Co. abandoned plan to build line to Naples, Tex., and will construct extension to Kildare on Texas & Pacific Ry., about nine miles. H. B. Montgomery, Jefferson, Ch. Engr.

Texas—Marlin-Temple Interurban Promotion Co., recently organized, plans to promote the construction of an interurban railway from Marlin to Temple. S. D. Hanna, Temple, Ch. Engr. Noted Sept. 30.

Texas—Marshall & East Texas Ry. plans to build extension from Winnsboro to Paris, 60.5 miles, and from Elysian Fields to the Sabine River, 98 miles. V. Snyder, Marshall, Vice-Pres. and Gen. Mgr. Noted Aug. 19 and Dec. 2.

Texas—Trinity Valley & Northern Ry. plans to build extension from Lumm to Lamb, Tex., about nine miles. A. J. Wise, Houston, Ch. Engr.

Oklahoma—Clinton & Oklahoma Western Ry. plans extension from Clinton to Colony, about 30 miles. W. S. Haid, Gen. Mgr., Clinton, Okla.

Oklahoma—Henryetta, Oklahoma & Western Ry. Co. will build from Henryetta to Krusa, Dewar and other towns. R. D. Long, Muskogee, Okla., interested. Noted Oct. 14 and Nov. 18.

Oklahoma—It is reported that Indian Territory Illuminating Oil Co., Bartlesville, Okla., will have surveys made for interurban railway from Bartlesville to Pawhuska, Okla., about 20 miles.

Oklahoma—Oklahoma Ry. Co. contemplates extending line from Edmond to Guthrie, Okla., 15½ miles. George W. Knox, Oklahoma, Okla., Second Vice-Pres. and Gen. Mgr.

Oklahoma—Plans being considered by Oklahoma Union Traction Co., Tulsa, for 15 miles of interurban line between Tulsa and Sapulpa during 1916. G. B. Small, Tulsa, Ch. Engr.

Utah—Utah Light and Railway Co., Salt Lake City, applied for permission to extend its Capitol Hill line. G. H. Robinson, Deseret Bldg., Pur. Agt.

Oregon—Oregon-Washington R.R. & Navigation Co. and Oregon Short Line R.R. will change main line from Blalock to Coyote, Ore., by straightening curves and lowering grades, 36 miles. Estimated cost, $500,000. J. R. Holman, Portland, Ch. Engr. of Oregon-Washington R.R. & Navigation Co.

California—Plans of City Engineer for Church St. municipal railway between 18th and 22d St. of Municipal Railways of San Francisco approved by Board of Public Works. Proposed line will run through Mission Park from 18th to 20th St. over right-of-way acquired by city between 20th and 22d St. T. A. Cashin, San Francisco, Supt. and Claim Agt.

California—San Diego Electric Railway Co. plans to extend its line on University Ave. to Euclid Ave. William Clayton, Vice-Pres. and Gen Mgr.

Ontario—Plans being considered for hydro-electric railway from river front, Sombra, to all points from Wallaceburg to Sarnia. W. A. Scott, Bickford, Clk.

Bids In and Contracts Awarded

Virginia—Richmond, Rappahonnock & Northern Ry. awarded contract to CENTRAL CONSTRUCTION CO., Harrisburg, Penn., for line from West Point to Urbanna, Va., 17 miles. C. L. Ruffin, 514 American National Bank Bldg., Richmond, Ch. Engr. Noted Nov. 25.

South Carolina—Atlantic Coast Line R.R., Walterboro, awarded contract for extension of Hollywood Spur, 4½ miles, to W. Z. WILLIAMS CO., Macon, Ga. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Florida—Florida East Coast Railway Co. has awarded contract for grading extension of Okeechobee Division from Maytown, Fla., to a connection with main line at New Smyrna, 17.25 miles, to J. M. COOK, Jacksonville. Bridge work and track laying will be done by company forces. Estimated cost, $200,000. E. B. Carter, Ch. Engr.

Kentucky—Cumberland & Manchester R.R. awarded contract for southern end of its line from Barbourville to Manchester, Ky., to READ CONSTRUCTION CO., Philadelphia, Penn. Noted Nov. 25.

Arkansas—Ozark Valley Railway has awarded contract for line from Rothville to Mountain Home, about 10 miles, to BLODGETT CONSTRUCTION CO., Kansas City, Mo. K. V. Loba, Mountain Home, Pres. Noted Sept. 16 and 30.

Texas—Gulf, Colorado & Santa Fé Ry. awarded contract to L. J. SMITH CONSTRUCTION CO., Kansas City, Mo., for grading 23½ miles of Gulf & Interstate Ry. from High Island to Port Bolivar. F. Merritt, Ch. Engr., Galveston, Tex. Noted Nov. 11.

California—(Official)—Bids received Nov. 26 by Board of Public Works for railway from Roasasco into Hetchy Hetchy reservoir, about 67 miles, were as follows: F. ROLANDI 550 Montgomery St., San Francisco, $1,543,080 (awarded contract); McArthur Bros. & Co., and Mason & Hanger Co., 1015 Chronicle Bldg., San Francisco, $1,955,062; Utah Construction Co., Phelan Bldg., San Francisco, $1,800,925. M. M. O'Shaughnessy, San Francisco, City Engr. Noted Oct. 21 and Nov. 11.

LIGHT, HEAT AND POWER

Maine, Biddeford—City Council contemplates municipal electric-light plant.

Mass., Foxboro—Foxboro Gas Co. will lay about eight miles of pipe line to furnish gas to Foxboro. E. F. Draper, Boston, Dir.

Mass., Westfield—At recent town meeting sum of $14,000 was appropriated for new boiler and other improvements to electric-light plant. Noted Aug. 5 and 12.

N. Y., Albany—(Official)—Bids will be received by the Trustees of Public Buildings, Executive Chamber, Capitol, until 3 p.m., Dec. 22, for electric fixtures and equipment for Senate Chamber, Capitol. Lewis F. Pilcher, Albany, State Arch. (See adv.)

N. Y., Batavia—Genesee Light and Power Co., of Batavia will issue $10,000 bonds, $5,605 of which will be used for electric distribution system in Elba Village. Noted Nov. 4.

N. Y., Buffalo—Atlas Works of Standard Oil Co. will build boiler house at Elk St. and Buffalo Creek Terminal R.R. Estimated cost, $15,000.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by J. B. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., until 4 p.m., Dec. 19, for alterations and repairs to heating and ventilating apparatus in Public School No. 2, Third Ave. near 169th St.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by C. J. B. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., New York, N. Y. (Borough of Manhattan), until 4 p.m., Dec. 13, for installing heating and ventilating apparatus and temperature regulation in additions to and alterations in Public School No. 89, Newkirk Ave. between East 31st and East 32d St.

N. Y., New York—(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Borough Pres., Borough Hall, Fifth St. and Jackson Ave., Long Island City, until 11 a.m., Dec. 10, for furnishing labor and material for electric-lighting system in Jamaica Town Hall.

N. J., South Orange—Civic Association is negotiating with Board of Trustees for the establishment of municipal electric-light plant.

Penn., Philadelphia—See item under "Industrial Works."

Md., Port Covington—(Baltimore post office)—Plans prepared for boiler house, screening shed and other improvements at Port Covington for Western Maryland R.R.

N. C., Granite Falls—Comstock Electric Co., High Point, retained by city to prepare plans and install electric-light system in Granite Falls.

Ga., Davisboro—Plans prepared by W. Hopson Goodloe, American National Bank Bldg., Macon, for an electric-light plant.

Ala., Georgiana—Bids will be received until Apr. 1 by J. R. Bennett, Secy., McGowin-Bennett Milling Co., for electric plant in feed mill to develop 100-hp. Estimated cost, $10,000.

Ohio, Elyria—Lorain County Electric Co. plans to extend its high tension transmission system. J. B. Johnson, Gen. Mgr.

Ill., Aurora—See item under "Water-Works."

Ill., Poplar Grove—Plans being considered by Illinois Northern Utilities Co., Dixon, for transmission line from Capron to Poplar Grove.

Wis., Monticello—Citizens voted $12,000 bonds for municipal electric-light plant.

Iowa, Des Moines—Des Moines Electric Co. has applied to City Council for permission to build a 44,000-volt high-tension transmission line from power plant to east city limits.

Kan., Oakland—Citizens contemplate installation of electric-light system.

Neb., Imperial—James Hoke is interested in a project to construct an electric power plant on Frenchman River.

Neb., Valley—Plans being considered by Platte Valley Power Co. for extending transmission lines to Arlington and other towns.

S. D., Bruce—Franchise granted to Weibers & Schulz by Board of Trustees for electric-light system.

N. D., Bisbee—Press reports state that City Council has granted 20-year franchise to an electric company to build and operate electric-light system in Bisbee.

N. D., Napoleon—J. F. Jacobs, Bismarck, interested in project to construct electric-light plant in Napoleon.

Wyo., Wheatland—City plans to improve municipal electric-light plant. Estimated cost between $6,000 and $10,000.

Mo., Crocker—Franchise granted to Crystal Ice and Bottling Co., Crystal, to install electric-light plant.

Ark., Batesville—Arkansas Light and Power Co. plans to secure contract from Government to utilize power from Lock and Dam No. 1 at Batesville.

Tex., Houston—National Oil and Gas Co. will build a 22-mile pipe line.

Tex., Roswell—Roswell Gas and Electric Co. will install large steam turbine and make other improvements to its plant. Estimated cost, $20,000.

Tex., Victoria—City Council granted franchise to Columbus Gas Construction Co., Milwaukee, Wis., to build gas plant. P. J. Sult, Pres. Noted Nov. 25.

Tex., Windom—Texas Power and Light Co. will install street-lighting system in Windom.

Okla., Goltry—Election will be held Dec. 21 to vote on $11,500 bonds for municipal electric-light plant. Noted Oct. 14.

Okla., Heavener—City will use part of proceeds of bonds for $20,000 recently voted by citizens for municipal electric-light plant to purchase plant of Heavener Light and Power Co., for $9,325, and expend about $6,000 for improvements. Noted Dec. 2.

Colo., Liberty—Plans being considered for municipal electric-light plant.

Idaho, Hailey—Richard W. Ferris granted franchise to install and operate an electric-light plant and water system in Hailey.

Idaho, Pocatello—City plans to extend street-lighting system. Estimated cost, $35,000. J. H. Giles, City Engr.

Utah, Monticello—Stockholders of Blue Mountain Irrigation Co. plan to install electric-light plant and water system in Monticello.

Ariz., Prescott—Power house will be constructed on Fossel Creek by Arizona Power Co. and new transmission lines built. Estimated cost, $300,000. M. W. Watson, Prescott, Mgr.

Ore., Sublimity—Franchise granted C. E. Taylor of Slayton Electric Light Co., Slayton, to install and operate electric-light and power system for a period of 25 years.

Calif., Los Angeles—Plans being prepared by F. L. Roehrig, Arch., American Bank Bldg., for sub-station for Aqueduct Power Board. Estimated cost, $50,000.

Que., Sherbrooke—City Council considering plans for improvement of electric-light plant and system. C. E. Gatien, City Clk.

Ont., Huntsville—Town Council has decided to remodel electric-light plant and construct new substation. T. M. Culton, Town Clk.

Man., The Pas—See item under Sewers.

Bids In and Contracts Awarded

Conn., New London—Contract awarded to H. R. DOUGLAS, INC., 376 Bank St., New London, for one-story, 45x71-ft. power house for Shore Line Electric Co. Estimated cost, $15,000. Noted Aug. 29.

N. Y., Binghamton—Ansco Co., manufacturer of photographic supplies, awarded contract to J. G. WHITE ENGINEERING CORPORATION, 43 Exchange Pl., New York, for extensions and improvements to its power plant.

N. Y., New York—(Borough of Queens)—Board of Education received bids Dec. 6 for installing heating and ventilating system in Public School No. 93, Forest Ave. between Woodbine and Madison St., from Wells & Newton Co., Ave. B and 17th St. (Borough of Manhattan), $66,983; Daniel J. Rice, $67,500; E. Rutzler Co., $69,181.

N. Y., Tonawanda—General Electric Co., Buffalo, awarded contract for power plant at Tonawanda to STONE & WEBSTER ENGINEERING CORPORATION, Boston, Mass. Noted Dec. 2.

N. J., Jersey City—Contract for heating system in new county jail awarded to W. H. & F. W. CRANE, New York, N. Y., at $93,000; electrical work to PLAT & POWERS, New York, N. Y., at approximately $9,000.

Penn., Lebanon—School Board awarded contract to B. F. CARPENTER CO., at $24,440 for installing heating and ventilating system in new high school.

Penn., Pittsburgh—Contract for two turbo generators of total capacity of 75,000 hp. to be installed at power station on Brunots Island awarded to WESTINGHOUSE ELECTRIC AND MFG. CO. by Duquesne Light Co. Estimated cost, $2,500,000.

Penn., Wilkes-Barre—Contract awarded to JOHN CURTIS CO. for one-story, 40x80-ft. boiler house for City Hospital. Estimated cost, $30,000.

Md., Baltimore—Contract for heating and ventilating plant for Guilford School awarded to WALTER E. HILL & CO., at $7,590.

Ala., Florence—Lauderdale Power Co. has awarded contract for power house and dam on Cyprus Creek to ALLENTOWN CONSTRUCTION CO.

Mich., Detroit—Contract awarded to FULLER CO., Penobscot Bldg., Detroit, for 10-story, 120x150-ft. power plant for Murphy Power Co.

Iron Mountain, Mich.—Contract for addition to power house of Peninsular Power Co. awarded to G. A. GUSTAFSON. Noted Supt. 23.

Wis., Appleton—Contract for furnishing 1,000 tons of structural steel for new power house of Wisconsin Traction, Light, Heat & Power Co. awarded to LACKAWANNA BRIDGE CO., Buffalo, N. Y. Noted Aug. 19 and Nov. 11.

Tex., El Paso—Contract for wiring new courthouse, auditorium and jail awarded to NATIONAL TELAGRAPHONE SUPPLY CO., El Paso, at $16,000.

Wash., Spokane—Contract awarded to P. J. DOWLING & CO., Spokane, at $7,000 for heating and plumbing in monastery for Poor Clare Sisters.

BRIDGES

Proposed Work

Mass., Lawrence—A $300,000 bond issue authorized by City Council for work on Central Bridge.

Conn., Ansonia—Plans being considered by city of Ansonia and Derby for rebuilding Division St. bridge with concrete structure. Estimated cost, $16,000.

N. Y., Fairfield—According to press reports bridge will be built across Maultanno Brook next year. C. N. Richardson, Fairfield, interested.

N. Y., Little Falls—Canal Board approved plans for highway bridge over Mohawk River at Little Falls. Estimated cost, $59,339. Frank M. Williams, State Engr. and Survr.

N. J., Newark—Board of Chosen Freeholders plans to appropriate $20,000 for repairing county bridges. S. Reimer, County Engr.

N. J., New Brunswick—Bids will be received by Board of Chosen Freeholders until Dec 13 for reinforced-concrete slab bridge over Tennents Brook on South Amboy-Bordentown Turnpike. Noted Dec. 2.

Penn., Camptown—Bids will be received by David A. Keefe, Consult. Engr., Athena, until 2 p.m., Dec. 14, for state bridge across Wyalusing Creek at Camptown.

Penn., Lewistown—(Official)—Bids will be received by Commissioners of Mifflin County, Courthouse, until 11 a.m., Dec. 18, for bridge over Jacks Creek at Sigler's Fording, Derry Township.

Penn., Philadelphia—Bids will be received until Dec. 14 by George S. Webster, City Engr., City Hall, for Diamond St. bridge over connecting railway. Estimated cost, $75,000.

Penn., Phoenixville—(Official)—Bids will be received by Commissioners of Montgomery and Chester Counties, Norristown, until 10 a.m., Dec. 21, for reinforced-concrete bridge across Schuylkill River between Phoenixville and Mont Clare. (See adv.)

Va., Pembroke—Press reports state that $8,400 has been appropriated by Commissioners of Giles County for bridge over New River. Norfolk & Western Ry. will also appropriate $10,000 toward cost.

Ga., Roswell—Bids will be received by Commissioners of Cobb and Fulton Counties, Fulton Comn. Rooms, Atlanta, until Dec. 21, for bridge across Chattacoochee River at Roswell. Estimated cost, $6,000. Noted Oct. 28 and Dec. 2.

Fla., Clearwater—(Official)—Pinellas County will build two-mile bridge from Clearwater to Clearwater Key under supervision of E. W. Parker, Curry Bldg. Estimated cost, $115,000. Noted Nov. 25.

Fla., Cocoa—Election will soon be held to vote on $65,000 bonds for bridge across Indian River to Merritts Island.

Ala., Birmingham—Plans being considered by Board of Revenue of Jefferson County for bridge over Valley Creek between Rock Creek and Oak Grove.

Ohio, Akron—See item under "Miscellaneous."

Ohio, Miamisburg—Contract will soon be awarded for new bridge over Miami River at Sycamore St.

Ohio, St. Clairsville—(Official)—Bids will be received by M. W. Hopkins, Audr. of Belmont County, until 1 p.m., Dec. 20, for repairing Union St. bridge.

Ohio, Youngstown—An expenditure of $8,500 authorized by City Council for painting and repairing Spring Common and Center St. viaduct.

Mich., Detroit—Plans will be prepared for temporary and permanent Belle Isle Bridge. R. H. McCormick, City Engr. Noted Sept. 16 and No. 4.

Ill., Bloomington—Bids will be received at Court House until 2 p.m., Dec. 18, for Becker Bridge in Lexington Township. Estimated cost, $13,690.

Wis., Milwaukee—Plans being considered for bridge across Upper Milwaukee River at State St. J. C. Pinner, Jr., Supt. of Bridges and Pub. Bldgs.

Iowa, Des Moines—Plans being prepared by E. L. Masqueray, Engr., 595 Endicott Bldg., St. Paul, Minn., for concrete bridge. Estimated cost, $40,000.

Neb., David City—Bids will be received until 2 p.m., Dec. 16, by Board of Commissioners of Butler County, for bridge work during 1916.

Mont., Missoula—Bids will be received until Dec. 18 by Commissioners of Missoula County for steel bridge across Hell Gate River at Turah.

Mo., Kansas City—Harrington, Howard & Ash Engineering Co. commissioned by Board of Public Works to prepare plans for 23d St. traffic way viaduct. Estimated cost, $40,000. Curtis Hill, City Engr.

Okla., Miami—Contract will soon be awarded for bridge across Upper Horse Creek. Bonds for $85,000 recently voted for bridge work.

Okla., Purcell—Election will be held Dec. 21 to vote on $100,000 bonds for bridge work in McClain County. Noted Dec. 2.

Ariz., Globe—Bids will be received until noon, Dec. 16, by Mayor and City Council, for reinforced-concrete bridge across Pinal Creek. R. A. Smith, City Engr.

Ariz., Miami—Election will be held Dec. 14 to vote on $17,500 bonds for bridges.

Wash., La Center—W. A. Schwarz, County Engr., preparing plans for bridge over Lewis River at La Center. Estimated cost, $10,000.

Ore., Portland—Holgate St. viaduct will be constructed by Southern Pacific Co. Estimated cost, $55,000.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contract for concrete bridge over Charles River at North Beacon St. awarded to A. C. TOMASELLO, 69 Gibson St., Dorchester, at $117,352. Noted Nov. 11 and Dec. 2.

R. I., Woonsocket—Contract for two bridges on Hamlet Ave. awarded to E. W. FOLEY CONTRACTING CO., New York, N. Y., at $71,886, and one bridge on Fairmont St. to SPAULDING CONSTRUCTION CO., Suffield, Conn., at $21,812. Noted Aug. 26 and Oct. 28.

N. Y., New York—(Hollis)—(Borough of Queens)—Contract for steel for bridge across Farmers Ave., Hollis, for Long Island R.R. awarded to AMERICAN BRIDGE CO., 30 Church St., New York, N. Y. Estimated cost of substructure, $16,800; superstructure, $65,800. J. R. Savage, Ch. Engr.

Penn., Reading—Contract for two reinforced-concrete bridges for Philadelphia & Reading Ry. awarded to JOHN DONAGHUE, Mahonoy City.

La., New Orleans—Contract for viaduct at West End Lake Shore Park awarded to MIDLAND BRIDGE CO., Kansas City, Mo., at $7350. Noted Oct. 28 and Nov. 25.

Ohio, Steubenville—All bids received Oct. 15 by Commissioners of Jefferson County for reinforced-concrete bridge on State Rd. in Springfield Township rejected. Noted Sept. 13.

Kan., Iola—Contract for three bridges awarded to CANTON BRIDGE CO., Canton, Ohio, at $9,240, $10,150 and $10,040, respectively. Noted Oct. 21.

Tex., Canadian—Contract for bridge across Canadian River awarded to CANTON BRIDGE CO., Kansas City, Mo., at $71,000. Noted Aug. 12 and Sept. 16.

Okla., Bartlesville—Contract for bridge work in Washington County awarded to ROCHESTER BRIDGE CO., as follows: Two bridges across Big Caney at $10,125 and $13,825, respectively; one bridge across Curl Creek at $5,150; nine small bridges at $22,125. J. G. Mitchell, County Clk.

Okla., Chickasha—Contract for bridge across South Canadian River awarded to CANADIAN VALLEY BRIDGE CO., at $60,000. P. E. Colby, City Engr. Noted Oct. 14.

Idaho, Caldwell—Contract for bridge across Boise River at Caldwell awarded to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., at $18,580. F. H. McConnell, County Engr. Noted Nov. 11.

Wash., Seattle—P. Manson, 2407 Boylston Ave., N., Seattle, at $5,787, submitted lowest bid for 23d Ave. bridge.

Calif., Sacramento—(Official)—Low bids received Nov. 24 by State Highway Commission for plate girder bascule bridge near easterly side of Yolo By-Pass were as follows: Ross Construction Co., Sacramento, $26,949; C. E. Lamburth, San Francisco, $25,800; Security Construction Co., Los Angeles, $24,671. Noted Nov. 11.

WATER-WORKS

Proposed Work

Maine, Wilton—City granted authority by Maine Public Utilities' Commission to issue $8,000 bonds for installing new intake, screen chamber and new pipe.

R. I., Cranston (Providence post office)—Bids will be received until Dec. 22 for making wash and core borings. Walter B. Chafee, City Clk.

N. Y., Rochester—City will lay about 16½ miles of 37-in. c.-i. water mains next year. F. D. Elwood, City Engr. Noted Sept. 30.

N. J., Atlantic City—Surveys being made and plans being prepared for 20-in. high-pressure water main with 12-in. laterals under board walk. L. Van Gilden, Ch. Engr. and Supt. of Bureau of Water.

N. J., Jersey City—Bids were not received Dec. 2 by City Commission as stated previously, for the construction of pipe line from Hackensack River to Brookdale. Revised plans will be prepared and new bids called. Estimated cost, $1,000,000. Noted Nov. 4.

Penn., Waynesboro—Waynesboro Water Co. employed Chester & Fleming, Pittsburgh, Engr., to make investigation and report regarding extension and development of water supply. Noted Oct. 7.

Ga., Lumpkin—City plans to remove water works from present location to site of electric-light plant to consolidate same. Work will include construction of reservoir and drilling a deep well. W. M. Crook, Macon, Ga., Engr.

Ga., Savannah—Report submitted to Water Committee of City Council by E. R. Conant, Ch. Engr., estimating cost of improving water system at about $200,000. Noted Sept. 30.

Ala., Gadsden—Press reports state that Gulf States Steel Co., Birmingham, will build water waste reservoir and also install high-pressure fire pump. Estimated cost, $15,000.

La., Donaldsonville—A proposition has been submitted to the Water and Light Commission by the National Water Purification Co., Dallas, Tex., to install filtration plant at an estimated cost of $4,500.

Ky., Flemingsburg—Preliminary plans being prepared by C. H. Babbitt, Engr., Columbus, Ohio, for municipal water system. Estimated cost, $10,000. Noted Oct. 28.

Ohio, Chardon—Chardon Water Works Co. plans to extend water mains five miles. C. H. Felton, 731 Williamson Bldg., Cleveland, Engr.

Ohio, Geneva—A private company contemplates constructing water works at Geneva in spring. Estimated cost, $8,000. M. C. Goddard, Engr.

Ohio, Hamilton—Bids will be received by S. D. Nelson, Supt. of Water Wks., until Dec. 14, for three 10-in. wells and intake for water works system. Joseph B. Meyers, Dir. of Pub. Ser. Noted July 29.

Ohio, Idlewood (Warrensville post office)—Bids will be received by John Howard, Village Clk., until noon, Dec. 13, for 6-in. water main in Friedel Rd.

Ohio, South Charleston—Bids will be received by W. L. Wentz, Village Clk., until Dec. 14, for water system.

Ind., Lakeville—Citizens defeated bonds for water works system.

Ind., Mishawaka—Board of Public Works will extend water system. Estimated cost, $16,000.

Mich., Albion—Bids will be received by City Clerk until Dec. 15 for pumping station and boiler house for water system.

Mich., Hamtramck—City will extend water mains in Charest Ave. and McDougall St. from Caniff to Carpenter Ave. and in McDougall St. from Stuart to Carpenter Ave. J. C. Schulthesis, Village Clk.

Ill., Aurora—Plans being considered by city for improving pumping station and power plant. Estimated cost, $75,000.

Ill., Chicago—(Oak Park)—Board of Local Improvements plans an expenditure of $34,066 next year for water mains and water service pipe.

Ill., Decatur—Contract will be awarded about Jan. 15 for 10,000 ft. 6-in. water mains in Homestead Pl. P. T. Hicks, City Engr.

Wis., Kenosha—Bids will be received by Board of Water Commissioners until Dec. 20 for water plant on Washington Island, including pumping station, filtration plant and equipment. Estimated cost, $250,000.

Wis., Madison—Board of Regents of University of Wisconsin plans to expend $30,000 for an electrically operated pumping station.

Minn., Rochester—Citizens will vote on bonds for water system.

Kan., Emporia—Citizens will hold election Dec. 28, to vote on $150,000 bonds, for water-works system. Black & Veatch, Kansas City, Mo., Engr. Noted Dec. 2.

Kan., Hiawatha—See item under "Streets and Roads."

Mont., Great Falls—Election will be held in January to vote to issue bonds for filtration plant at water works.

Mo., Cardwell—Citizens voted at recent election $,000 bonds for water-works system.

Mo., Lees Summit—Bids will be received by city until Dec. 15, for pipe, valves, tower and tank, pump, concrete reservoir and brick pump house. Kent & Lowery, 715 Reserve Bank Bldg., Kansas City, Engr.

Mo., Steelville—Citizens planning to install water works system.

Mo., Summit—Bids will be received about Dec. 15 for municipal water system. Estimated cost, $46,000. Henrici, Kent & Lowry, Consult. Engr., 715 Reserve Bank Bldg., Kansas City.

Tex., Cleburne—City plans to construct water system. Estimated cost, $25,000.

Tex., Ft. Worth—Holman & Laird submitted report, estimating cost of perfecting city water system at $300,000, including completion of conduit from Lake Worth doing away with artesian well system, abolishing North Side water-works, providing proper filtration and improving dual water system.

Tex., Galveston—Election will soon be held to vote on $200,000 bonds to repair, restore or submerge water mains across Galveston Bay.

Tex., Oak Cliff—(Dallas post office)—City Commission authorized purchase of 8,000 ft. of 16-in. water pipe and 6,000 ft. of 12-in. water pipe.

Tex., Palestine—Citizens plan purchase of present water-works system, or construction of new municipal plant. J. W. Sammons, Engr.

Tex., Pampa—Pampa Water, Light and Power Co. have been organized to build water and light plant. A. E. Davis, interested.

Okla., Clinton—Citizens voted $6,000 bonds for extension of water-works system. Noted Dec. 2.

Okla., Dewey—City plans to install water system.

Okla., Henryetta—(Official)—Citizens recently voted $100,000 bonds for water-works system. B. Williams, City Clk. Noted Nov. 25.

Okla., Tulsa—Election to vote on $600,000 bonds for storage basin at mouth of Shell Creek, postponed from Jan. 2 until spring. Noted Dec. 2.

Colo., Lafayette—Citizens will construct municipal water-works system. Estimated cost, $50,000.

Colo., Orchard—Bonds for $50,000 authorized by City Council for water system.

Idaho, Hailey—See item under "Light, Heat and Power."

Utah, Blanding—City plans municipal water system. Estimated cost, $25,000.

Utah, Monticello—See item under "Light, Heat and Power."

Ariz., Phoenix—J. B. Girand, City Engr., recommends to City Council expenditure of $1,000,000, for improving water-supply system.

Wash., Bremerton—City will purchase present water system and improve same at a cost of $70,000. Citizens recently voted $260,000 bonds for this purpose. E. J. McCall, City Clk.

Wash., Everett—Bids will not be received for improving water system until July. Estimated cost, $1,700,000. Burns & McDonald, Engr. Noted Sept. 2.

Wash., Seattle—Board of Public Works approved plans for laying water mains in Maynard Ave. and Michigan St., and 43rd Ave., N. W. Bids will soon be called for. A. H. Dimmock, City Engr.

Wash., Seattle—Contract will be awarded in about two months for water mains in Dexter Ave. Estimated cost, $32,000. A. H. Dimock, City Engr. Noted Sept. 30 and Oct. 7.

Que., Princeville—City will construct water system pumping station, and will purchase 4 and 6 in. c.-i. pipe, valves, pumps, hydrants, etc.

Ont., Penetanguishene—Citizens defeated proposition for extension of water mains.

Ont., Port Dover—Plans being prepared for water-works plant and system. James Louden & Hertzberg, 79 Adelaide St., Toronto. Noted Nov. 25.

Ont., Tweed—City will construct water-works plant. Estimated cost, $25,000. Kerry & Chase, Ltd., Confederation Life Bldg., Toronto, Engr.

Man., The Pas—See item under Sewers.

B. C., Port Moody—City will start work on construction of water-works system in February. P. Moe, Mayor.

Bids In and Contracts Awarded

Mass., Boston—Contract for water pipes awarded A. DADDARIO, 49 Edgewater Drive, Mattapan, Mass.

Mass., Lynn—Contract "B" for superstructure of Ipswich River pumping station awarded to H. T. CUMMINGS CONSTRUCTION CO., Ware. Noted Oct. 21 and 28.

Penn., Philadelphia—Contract for one-story steel and frame pump house awarded A. L. CARHART, Hale Bldg., Philadelphia. Estimated cost, $30,000.

Ohio, Cleveland—Low bidders for water mains in South Woodland Road, were: Lanese Co., Columbia Bldg., at $18,946; Phillips & Bixel, 235 Superior Ave. N. W., at $23,720; George Bros., 1148 Bolivar Rd., at $22,253. F. A. Pease Engineering Co., Marshall Bldg., Engr. Noted Nov. 11.

Ohio, East Liverpool—Contract for superstructure for pumping station and filter plant awarded to PITT CONSTRUCTION CO., Pittsburgh, Penn., at $52,900. Noted Sept. 23.

Ind., New Albany—New Albany Water Works Co. awarded contract for roof over reservoir to S. DAY & SON. Estimated cost, $4,138.

Ill., Chicago—Contract for steam-generating equipment at Mayfair Pumping Station awarded to WILLIAM A. POPE, 28 North Jefferson St., Chicago, by Department of Public Works. Estimated cost, $127,640.

Ill., Rock Island—Contract for installation of water mains on 21st Ave. between 24th and 25th St., awarded to P. F. TRUNKENSCHUH.

Ill., Wheaton—Low bids received for 2,000,000 gal. tank, were submitted by Memphis Steel Construction Co., Pittsburgh, Penn., at $9,543 with hemispherical bottom, and $18,851 with elliptical bottom. L. V. Ruddock, Engr. Noted Nov. 18.

Iowa, Marshalltown—Lowest bid received for pump for water system submitted by Allis-Chalmers Mfg. Co., Chicago, Ill., at $14,485.

Neb., Neligh—Contract for extension of water-works system awarded to U. S. SUPPLY CO., Omaha.

Tex., Houston—City Council received bids Dec. 1, for deep-well pumps to be installed in new pumping station in North Main St. from J. G. Brown Co., at $19,948; Layne & Bowler Co., at $21,874; Southern Engine and Pump Co., at $28,000.

Idaho, Council—Contract for water system awarded to E. L. PHELPS, Weiser. Estimated cost, $11,200. Noted Nov. 18.

Utah, Salt Lake City—Contract for 18-in. c.-i. pipe line from Butler Ave., Federal Heights, to hydraulic laboratory of State University awarded to JAMES KENNEDY CONSTRUCTION CO.

Wash., Hillyard—Contract for steel tower and 2,000,000-gal. tank, awarded to CHICAGO BRIDGE AND IRON CO. Estimated cost, $8,288. Contract for pump, for pumping plant awarded to FAIRBANKS, MORSE & CO., Spokane. Estimated cost, $2,060. Noted Nov. 11.

Man., Winnipeg—Contract for laying water main in Wellington Crescent, awarded to DOMINION CONSTRUCTION CO., 290 Selkirk Ave., Winnipeg.

SEWERS

Proposed Work

Mass., Boston—(Dorchester)—Bids will be received by Commissioner of Public Works until noon, Dec. 15, for Davenport Brook Conduit, from Magdala to Washington St. Edward F. Murphy, Comr. Pub. Wks.

N. Y. New Rochelle—City contemplates enlargement of sewer system. Estimated cost, $400,000. John Hadert, City Engr.

N. J., Caldwell—Plans being prepared by J. S. Provost, Engr., for extending sewer system. Estimated cost, $18,000. Noted Nov. 18.

N. J., Trenton—Board of Commissioners approved ordinances providing the construction of sewers in Gardener, Cook, Greenwood and Hobart Ave.

Penn., Philadelphia—Plans prepared for two main sewers in Decker and Seventh St. and nine branch sewers in various other streets. Estimated cost, $80,000. George S. Webster, City Engr.

Md., Crisfield—Bids will be received next spring for about eight miles of sewers and a sewage-disposal plant. Greiner & Whitman, 1319 Fidelity Bldg., Baltimore, Engr. Noted Oct. 14.

Md., Hagerstown—City plans to construct sewer system. J. B. Ferguson, City Engr.

Md., Rockville—Plans being prepared by E. B. Whitman, Consult. Engr., 1319 Fidelity Bldg., Baltimore, for sewer system for Bethesda District, Montgomery County. B. E. Clark, Clk., Bd. of County Comrs.

Va., Roanoke—Bids will be received by P. H. Tucker, Village Clk., until noon, Dec. 21, for sewers. F. L. Gibboney, City Engr.

Ga., Lumpkin—City plans to install sewer system. W. G. Pugh, Mayor.

Ohio, Alliance—City contemplates building one mile of sanitary sewer. W. W. Shideler, Engr.

Ohio, Chillicothe—City Council passed ordinance for 12-, 36- and 40-in. storm-water sewer laterals in Western Ave. Estimated cost, $4,400. H. M. Reid, City Engr.

Ohio, Cincinnati—(Official)—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., until noon, Dec. 13, for Duck Creek Interceptor Sewer, Contract No. 3.

Ohio, Cincinnati—Bids will be received by Philip Fosdick, Dir. Pub. Ser., until noon, Dec. 13, for improving sewers in Whitely St. from Colerain Ave. 180 ft. west, and right-of-way from Whitely St. 140 ft. south.

Ohio, Cincinnati—Bids will be received by Philip Fosdick, Dir. Pub. Ser., until noon, Dec. 15, for improving sewers in Resor Ave., from Middleton to Clifton Ave., and Clifton Ave. from Resor Ave. north to trunk sewer.

Ohio, East Palestine—Bids will be received by O. L. Butts, Village Clk., until noon, Dec. 20, for sanitary sewer and sewage-disposal plant. Estimated cost, $60,000.

Ohio, Geneva—Bids will soon be received for sewage-disposal plant. Estimated cost, $27,000. M. C. Goddard, 42 Walnut St., Geneva, Engr. and W. E. Morgan, City Clk.

Ohio, Leetonia—Citizens plan sewage-disposal plant. Estimated cost, $40,000. James P. Sculley, City Clk.

Ohio, Painesville—City contemplates building two miles of 8-, 10,- 12-, 16- and 20-in. sanitary sewers. M. A. Tuttle, Dir. of Pub. Ser. F. N. Downer, City Engr.

Ind., Vincennes—Contract will be awarded about Jan. 1 for storm sewers in eastern and southeastern part of city. Estimated cost, $150,000. H. T. Watts, City Engr. Noted Dec. 2.

Mich., Grand Rapids—W. S. Moore, City Engr., has submitted a plan to Oakdale Improvement Association for sewer in Oakdale Ave., S. E., down Kalamazoo Ave. to Silver Creek Valley. Estimated cost, $30,000.

Mich., Hillsdale—City has been ordered to improve sewerage system by State Board of Health.

Ill., Chicago—(Oak Park)—City plans an expenditure of $23,923 for pipe sewers in Oak Park next year.

Ill., Salem—City plans to build sewage-disposal plant and sewer system. Estimated cost, $50,000. H. L. Caldwell, 710 Ayres Bank Bldg., Jacksonville, Ill., Engr.

Wis., Fond du Lac—City contemplates storm sewers in Dixie, Everett, Juneau, Rees, Baumister St., and Fond du Lac Ave. John McCullough, City Engr.

Wis., New Lisbon—Preliminary plans being prepared for sewer system. W. G. Kirchoffer, 24 North Carroll St., Madison, Engr.

Iowa, Charter Oak—Plans being prepared by Bruce, Standeven & Boynton, Consult. Engr., Bee Bldg., Omaha, Neb., for sewer system. C. Robertson, City Clk.

Iowa, Ft. Mason—City will construct about one mile of 10- to 15-in. sewers. Bids will soon be asked. R. J. Lewis, City Engr.

Iowa, Hampton—Bids will be received by C. A. Van Pelt, City Clk., until 7:30 p.m., Dec. 15, for sanitary sewer system.

Iowa, Marshalltown—City will construct storm sewers. W. H. Steiner, City Engr.

Iowa, Mason City—Bids will be received by City Clerk until Jan. 6 for sewage-disposal plant of Imhoff type. Estimated cost, $70,000. F. P. Williamson, City Engr. Noted Aug. 12.

Iowa, Ottumwa—Citizens plan sewers in Center Ave. and East Court St.

Minn., St. Paul—Bids will be received by A. Hohenstein, Pur. Agt., until 10:30 a.m., Dec. 13, for sewer in Fairview, Denslow, Annapolis and Dale St.

Minn., St. Paul—Plans approved for sewer in Eaton St. between Chicago and Indiana Ave. Oscar Clausson, City Engr.

Kan., Erie—(Official)—Bids will not be received for sewer extensions and connections in Main and Santa Fe St. south to city limits. B. W. Garvin, Mayor. Noted Nov. 25.

Neb., Grand Island—Bids will be received in about four months for constructing storm sewers. Estimated cost, $100,000. H. E. Clifford, City Clk. Noted Sept. 2 and 9.

Neb., Pawnee City—Citizens defeated $35,000 bonds for sewer system. Noted Dec. 2.

Neb., Pierce—Election will be held Dec. 14 to vote on $20,000 bonds for sewer system.

S. D., Herrick—City will install sewer system.

Wyo., Cheyenne—Bids will be received by J. J. Showalter, City Clk., Dec. 13, for extending sewers in 19th St. from Bent to O'Neil St.

Mo., Aurora—Election will be held in January to vote on bonds for sewer system.

Mo., Stanberry—Citizens voted $4,000 bonds for sewerage system.

Tex., Canadian—Citizens will vote on $20,000 bonds for municipal sewer system. Oswell Hudson, Mayor.

Tex., Childress—City plans installation of sewer system.

Tex., Ft. Sam Houston—Bids will be received until Dec. 14 for sewage system and sewage-disposal plant.

Tex., Houston—Bids will be received for construction of storm sewers on Burnette St. from Hardy St. to White Van Bayon Outfall, and other improvements to the Carolina St. storm sewer, storm sewer on Paschall St., from North Main St. to Cockran St., and for storm sewer on White Oak and Florence St. E. E. Sands, City Engr.

Tex., San Marcos—San Marcos Sewer Co. plans sewage-disposal plant. Estimated cost, $5,000.

Okla., Haileyville—Citizens will vote on $50,000 bonds for sanitary sewer system.

Ore., La Grande—Contract will soon be awarded for sewer system. Estimated cost, $16,000. L. D. Howland, City Engr.

Ore., Portland—Plans being considered by city for sewer in East Davis and East 72d St., Mt. Tabor. Estimated cost, $8,758.

Calif., Pasadena—Election will soon be held to vote on $485,246 bonds for sewer system and sewage-disposal plant to be used by the cities of Pasadena, South Pasadena and Alhambra. Noted Dec. 2.

Ont., Bosanquet—(Thedford post-office)—City Council plans construction of Hampton drain and other improvements. G. Sutherland, Thedford, City Clk.

Ont., Brantford—City will construct sanitary sewers in Drummond and Read St., and Jubillee Ave. T. H. Jones, City Engr.

Ont., Goderich—City will construct sewer in Lighthouse St. Work will not be done this fall. C. L. Knox, City Clk.

Ont., Leamington—Council authorized construction of sewers in Russell and Mill St., and Victoria Ave.

Ont., London—City will make extensions to storm-sewer system, and will construct sewers in Regent, William, Dundas and Elizabeth St. Estimated cost, $30,000. S. Baker, Clk.

Ont., Romney—Plans being considered for several drains. J. W. Kennedy, Wheatley, Ont., Clk.

Ont., Toronto—City will construct sewers in Queen, Leslie St. and Pape Ave. Estimated cost, $56,500.

Ont., Woodstock—City Council plans construction of storm sewers. Estimated cost, $25,000.

Man., The Pas—Bids will be received Jan. 17, for the purchase of $130,000 bonds, $80,000 for sewer construction and water-works; $50,000 for construction and equipment of an electric-light system. H. H. Elliott, Town Clk.

Bids In and Contracts Awarded

N. Y., New York—(Borough of the Bronx)—Contract for sewers in Starling Ave. between Olmstead Ave. and Unionport Rd., Unionport Rd. between Starling and McGraw Ave., McGraw Ave. between Unionport Rd. and Pugsley Ave., awarded to ANITA CONSTRUCTION CO., 2975 Marion Ave., N. Y. Noted Nov. 4.

N. Y., New York—(Borough of Manhattan)—Contract for tunnel relief sewer in West 46th St. awarded to BRAZER & BURCHENAL, 80 Maiden Lane, New York, at $250,013. Noted Oct. 21 and Nov. 11.

Penn., Mt. Carmel—Contract for sewage pumping station awarded to THOMAS J. RADLEY, 143 Liberty St., New York, N. Y. Estimated cost, $13,226.

Tenn., Cleveland—Contract for sewer system, for which $75,000 was appropriated, awarded to A. C. BROOKS & CO., Birmingham, Ala.

Tenn., Park—(Knoxville P. O.)—(Official)—Contract for constructing sewer laterals awarded to J. A. ASHLER, Knoxville. Noted Nov. 25.

Ohio, Cleveland Heights—(Warrensville post office)—Contract for sewers in Cedar Road District No. 3 awarded to ROSS-COOK ENGINEERING CO., 193 Crosby St., Akron, at $32,039. Noted Oct. 21.

Ohio, Columbus—Contract for Frames Ave. relief sewer awarded to BOYD & COOK, Dayton, Ohio. Estimated cost, $43,780. Noted Nov. 11.

Ohio, Sandusky—J. B. Sheets Co., Pittsburgh, Penn., at $69,554 submitted lowest bid for intercepting sewer from Mills to Meigs St. J. J. Molter, Dir. of Pub. Serv.

Ohio, Toledo—(Official)—Contract for main sewer No. 13 awarded to BREYMANN & O'NEIL, Nashby Bldg., Toledo, Ohio. Noted Nov. 18.

Ill., Aurora—F. E. KAMINSKI, Watertown, Wis., at $11,910, awarded contract for sewer system in northeastern section of city. M. Tarble, Engr. Noted Sept. 9.

Ill., Melrose Park—Contract for sewers awarded to T. H. IGLEHART, 718 Rookery Bldg., Chicago. Estimated cost, $27,000.

Iowa, Dubuque—(Official)—Contract for constructing 8-in. tile sanitary sewer in St. Ambrose St. from manhole at intersection of Willow and St. Ambrose St., awarded to J. A. R. DANIELS, 112 Alpine St., Dubuque. J. J. Shea, City Clk. Noted Dec. 2.

Kan., Manhattan—Contract for sewers in three districts awarded to W. W. COOK, Junction City, Kan. Estimated cost, $14,287. Noted Oct. 14.

Neb., Omaha—Contract for sewer in Larimore Ave. awarded to E. P. DONAHUE, 503 Ware Bldg. John A. Bruce, City Engr.

Tex., Houston—Contract for sewerage work awarded as follows: Storm sewer on Hawthorne St. to F. D. HORTON & SON, at $18,000; Smith St. sewer to HORTON & HORTON, at $4,800; storm sewer on Bagby and Laure St. to HARDMAN & NELSON, at $15,200. Noted Dec. 2.

Tex., San Benito—(Official)—Contract for sanitary sewage disposal plant awarded to S. S. DODDS, San Benito, Tex. Estimated cost, $4,272. Noted Oct. 28.

Idaho, Bonners Ferry—HURD, DECAMP & WOODS, Spokane, Wash., at $24,778, awarded contract for sewer system. Noted Sept. 9 and Nov. 4.

Wash., Seattle—Contract for sewers in Sixth Ave. N. W., awarded to WASHINGTON PAVING CO., Seattle. Estimated cost, $78,694. Noted Nov. 4.

Calif., Los Angeles—Contract for sewer in Pico St. from Granshaw Blvd. to Sixth Ave. awarded to S. ZARUBICA, at $7,577. Noted Dec. 2.

Calif., Los Angeles—P. S. Tomich, at $11,500, submitted lowest bid for sewer in Griffith Ave.

Calif., Stockton—Contract for sewer work awarded to W. S. GAUSE, Piedmont, at $6,196.

Calif., Stockton—Contract for sanitary sewer in southwestern section of city awarded to CHAMBERS & HEAFEY, at $24,050.

GARBAGE

Proposed Work

Maine, Bar Harbor—Bids will be received by Board of Health, Odd Fellows Hall, until Dec. 15, for disposal of garbage for periods of three and five years.

N. J., Glen Ridge—Election will be held Dec. 23 to vote on $15,000 bonds for garbage disposal plant in Carteret St. Noted Oct. 28.

Ont., Welland—Plans being considered by J. G. Stephenson for garbage disposal plant. Estimated cost, $20,000.

Bids In and Contracts Awarded

Mass., Boston—Contracts for removing snow and ice awarded by E. F. Murphy, Comr. of Pub. Wks., as follows: JOSEPH M. KILEY, Roxbury, at 44c. per cu. yd. for District No. 1; J. P. McCABE CO., at 33c. for District No. 2; C. J. JACOBS CO., 107 Terrace St., Boston, COLEMAN BROS., Chelsea, at 37c. and 40c. respectively for District No. 4 and 5; JOSEPH SPRISSLER, at 37c., for District No. 6; JAMES DRISCOLL & SON CO., at 35c., for District No. 7.

N. J., Atlantic City—Contract for collection and disposal of garbage for a period of five years awarded to FARMERS PRODUCT AND SUPPLY CO., Atlantic City. Noted Oct. 7.

Penn., York—(Official)—Contract for collection and disposal of garbage for a period of 10 years awarded to C. C. FISCHER, York, at $19,000. Noted Nov. 25.

La., Hammond—Contract awarded to SUTHERLIN CONSTRUCTION CO., Kansas City, Mo., for garbage incinerator.

STREETS AND ROADS

Proposed Work

N. Y., Kingston—City plans to pave Hosbrouck Ave. in 1916. G. Wallace Codwise, City Engr.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received until noon, Dec. 14, by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, for constructing concrete sidewalks.

N. Y., Wampsville—Towns in Madison County plan to raise a fund of $70,447 for highway construction in 1916.

N. J., Irvington—Town Commission plans to pave Howard St. and Ellis Ave.

N. J., Newton—Bids will be received about Jan. 1 by Board of Chosen Freeholders of Sussex County for improving Rossmore's Corner-Sussex Rd. Estimated cost, $85,000. H. Snook, County Engr. Noted Oct. 21.

Md., Cumberland—City plans to pave Cumberland St. from Franklin to Tilghman St. with concrete and from Allegany to Franklin St. with brick. J. P. Gaffney, City Engr.

Md., Salisbury—Bids will be received until Dec. 14 by Commissioners of Wicomico County for 1.35 miles of State-Aid highway upon or along Brawington's Branch Zion Rd. H. M. Clark, Road Engr.

Va., South Boston—City plans an expenditure of $25,000 for 15,000 sq.yd. of pavement. Anderson & Christie, Charlotte, N. C., Consult. Engr.

W. Va., New Cumberland—Election will be held during 1916 to vote on $50,000 bonds for paving Poe Road District with brick. E. Grafton, County Engr.

N. C., Marion—A $5,000 bond issue for constructing roads contemplated by Commissioners of McDowell County.

Fla., Tallahassee—Election will be held Dec. 28 to vote on $4,000 bonds for paving College Ave. from Adams to Copeland St. A. H. Williams, City Clk.

La., De Ridder—Citizens of Calcasieu County plan to issue $700,000 bonds for road construction.

Tenn., Dover—Election will soon be held to vote on $200,000 bonds for road construction. Noted Oct. 21.

Tenn., Knoxville—City Commission will improve State St.

Tenn., Knoxville—Bids will be received until noon, Dec. 15, by Good Roads Commission of Knox County for rebuilding Kingston Rd. from corporate limits of city to Eastern Insane Asylum.

Ohio, Cincinnati—(Official)—Bids will be received by A. Reinhardt, Clk., Comrs. of Hamilton County, until noon, Dec. 17, for widening Boudinot Ave. near Warsaw and Bridgetown Pike, Green Township.

Ohio, Cincinnati—City will expend portion of $1,250,000 bonds recently voted for extending Bloody Run Parkway to Eden Park. Philip Fosdick, City Engr.

Ohio, Columbianna—City plans to pave West Park, about ½ mile, and Union Park, about ⅝ mile. C. E. Beard, Engr.

Ohio, East Liverpool—City plans to pave Harvey and Elizabeth St. with concrete. J. C. Kelley, City Engr.

Ohio, Marysville—Commissioners of Union County plans to expend $10,200 for road improvements.

Ohio, Painesville—City plans an expenditure of $45,000 in 1916 for paving. F. N. Downer, City Engr.

Ohio, Salem—Plans being prepared for about 7,000 sq.yd. of brick paving. B. M. French, City Engr.

Ohio, Washington—Bids will be received until Dec. 11 by Director of Public Service for improving a number of city streets.

Ind., Angola—(Official)—Bids will be received by R. Hirst, City Clk., until 1:30 p.m., Dec. 15, for improving North Wayne St. (See adv.)

Ind., Winamac—Bids will be received by W. E. Munchenberg, Audr., Comrs. of Pulaski County, until noon, Jan. 4, for gravel road.

Mich., Kalamazoo—Bids will be received until 10 a.m., Dec. 14, by Road Commissioners of Kalamazoo County, for resurfacing a number of roads.

Wis., Birchwood—(Official)—Citizens defeated $5,000 bonds for street improvements. Noted Nov. 4.

Wis., Kenosha—Bids will soon be received for approximately 8,000 sq.yd. of vitrified brick paving on Pomeroy St. from Fremont to Newhall St. B. C. Brennan, Supt. of Pub. Wks.

Wis., Racine—City plans to pave Mound Ave. with brick in 1916. P. H. Connolly, City Engr.

Iowa, Mason City—Contract for paving estimated to cost $500,000 will be awarded about Jan. 15. E. P. Wilson, City Engr.

Iowa, Storm Lake—Contract for 60,000 sq.yd. of paving will be awarded about Feb. 1. J. E. Ruland, City Clk.

Minn., Pine City—Bids will be received by W. H. Hamilton, County Audr., until Dec. 10, for constructing Elwell Rd. Estimated cost, $50,000.

Minn., St. Paul—Bids will be received by A. Hohenstein, Pur. Agent, until 10:30 a.m., Dec. 13, for improving Edgecomb Rd. from West Seventh St. to Lexington Ave. O. Claussen, City Engr.

Minn., St. Paul—Bids will be received by A. Hohenstein, Pur. Agent, until 10:30 a.m., Dec. 13, for improving Oxford St. from Rondo to Thomas St., Edmond St. from Lexington Ave. to Dunlap St. and Oxford St. from Iglehart Ave. to Rondo St. O. Claussen, City Engr.

Kan., Hiawatha—City Commissioners plan an expenditure of $100,000 in 1916 for paving and improving water system.

Mont., Billings—Citizens plan to hold election in January to vote on $175,000 bonds for improving highways in Yellowstone County.

Mo., Kansas City—Board of Public Works plans to pave Broadway from 14th St. to Southwest Blvd.

Mo., Stotts City—Citizens of Stotts City Road District voted $13,500 bonds for rock surfacing about nine miles of roads.

Ark., Little Rock—City Council plans to pave Center St. from Markham to Seventh St. H. Levinson, City Engr.

Ark., Stuttgart—An expenditure of $30,000 contemplated by city for paving. F. W. Towl, Engr.

Tex., Lockhart—Commissioners of Caldwell County plan to hold election to vote on $50,000 bonds for highway construction.

Tex., Luling—Election will soon be held to vote on $50,000 bonds for hard surfacing roads.

Tex., Marlin—A bond issue for $200,000 for constructing roads contemplated by Commissioners of Falls County.

Okla., Bristow—Citizens defeated $25,000 bonds for roads. Noted Nov. 11.

Okla., Norman—Election will be held Dec. 15 in Norman Township to vote on $25,000 bonds for road construction and $5,000 bonds in Case Township.

Idaho, Lewiston—Commissioners of Nez Perce County plan to construct John Kennedy Rd. on Upper Tom Muriel Creek. Estimated cost, $20,000. C. J. Vassar, County Surveyor.

Idaho, Preston—County Commissioners contemplate $150,000 bond issue for road construction.

Wash., Ellenburg—Report submitted to Commissioners of Kittitas County by County Engineer, estimating cost of highway between Ellenburg and Wenatchee at about $200,000.

Wash., Prosser—Bids will be received by State Highway Board, Olympia, until Dec. 20, for improving 11½ miles of highway between Kiona and Richland, Benton County. T. J. Wright, Prosser, County Engr.

Wash., Seattle—Bids will be received until 10 a.m., Dec. 21, by B. Phelps, Clk., Comrs. of King County, for Permanent Highway No. 13.

Ore., Albany—City Council plans an expenditure of $9,149 for hard-surfacing Washington St.

Ore., Portland—Advisory Budget Committee of Multnomah County has recommended that $431,000 be appropriated for road construction for 1916.

Ore., Warrenton—Citizens of Warrenton Road District plan an expenditure of $25,000 for road improvements.

Calif., Modesto—Supervisors of Stanislaus County contemplate $1,500,000 bond issue for constructing roads.

Calif., Sacramento—(Official)—Bids will be received until 2 p.m., Dec. 27, by the State Highway Commission, 515 Forum Bldg., for roads in various counties.

Calif., Sawtelle—Bids will be received until 5 p.m., Dec. 20, by City Clerk, for improving Wabash Ave. between Iowa Ave. and Santa Monica Blvd.

Ont., Chatham—City Council plans to pave Lansdowne Ave. during 1916 with reinforced-concrete. F. P. Adams, Engr.

Bids In and Contracts Awarded

Mass., Boston—(Sheffield and Great Barrington)—(Official)—Contract for section of state highway in Sheffield and Great Barrington awarded to JOHN DE MICHAEL & BROS., Torrington, Conn., at $28,382. Noted Nov. 4 and 18.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids were received Dec. 6 for regulating and repaving 151st St. from west side of Seventh Ave. to east side of McCombs Pl. as follows: Uvalde Asphalt Paving Co., $4,329; Asphalt Construction Co., $4,801; Barber Asphalt Paving Co., $5,308. Noted Dec. 9.

N. Y., New York—(Borough of Queens)—Contract for improving Rockaway Blvd. awarded to H. J. MULLEN CONTRACTING CO., Flushing, at $56,000. Noted Sept. 23 and Oct. 7.

N. J., Jersey City—Contract for improving Old Bergen Rd. from Blvd. to Merritt Ave. awarded to W. T. S. CRITCHFIELD CO., Hoboken.

N. J., Mt. Holly—MANWARING & CUMMINGS, 1326 Chestnut St., Philadelphia, Penn., at $5,710, awarded contract for paving Vinceton and Buddton Rd., and at $4,579, for Vincetown and Eayerstown Rd.

Penn., Philadelphia—Contracts were awarded for paving as follows: 80th St. to HARRY MAGEE, at $4,982; Hartford Ave., to JAMES A. MULLIN, at $27,762; 54th St. to BARBER ASPHALT PAVING CO., Woolworth Bldg., New York, at $9,984; East wick St. to J. JOSEPH McHUGH, at $5,914; Second St. to the BARBER ASPHALT PAVING CO., Woolworth Bldg., New York, at $5,358; Harvey St. to D. J. LYNCH, at $8,616.

Penn., Pittsburgh—(Official)—Contract for improving Cliff Mines and Beaver Grade Connecting Rd., Sec. No. 1, awarded to SAMUEL GAMBLE CO., Carnegie, at $7,493. Noted Nov. 18.

Md., Baltimore—D. M. Andrews Co., Equitable Bldg., at $6,520, submitted lowest bid for paving on Annapolis Blvd. between Severn River and College Creek bridges. Noted Nov. 18.

Md., Leonardtown—Contract for 1.18 miles of State-Aid highway on Washington and Fenwick St. awarded to AUSTIN & IRELAND, Baltimore.

N. C., Winston-Salem—An expenditure of $17,000 planned by Forsyth County Highway Commission for concrete pavement on Main St. Work will be done by convict labor. D. W. Harmon, Highway Engr.

S. C., Greenville—Contract for 60,000 sq.yd. of street paving, 10,000 sq.yd. of concrete gutters and 12,000 lin.ft. of granite curb awarded to CASE & COTHRAN, 1507 Candler Bldg., Atlanta, Ga. About $175,000 available for this work. Noted Nov. 4 and Dec. 2.

Ga., Atlanta—Commissioners of Fulton County plan to build 10 miles of road by convict labor. W. T. Wilson, County Highway Engr.

Fla., Clearwater—Contract for improving Ft. Harrison Ave. from Eldridge St. to corporate limits awarded to PINELLAS CONSTRUCTION CO., Augusta, Ga., at $22,806.

Fla., Fellsmere—Contract for 5½ miles of concrete sidewalks awarded to E. HAWK. Citizens recently voted $50,000 bonds for paving and sidewalks. C. W. Tolmage, Ch. Engr. Noted Oct. 14.

Fla., Ft. Pierce—Contract for surfacing 4½ miles of Dixie Highway along Indian River awarded to GOOD ROADS CONSTRUCTION CO., Memphis, Tenn.

Tenn., Chattanooga—Contract for asphalting McCallie Ave. awarded to NELL CONSTRUCTION CO.

Tenn., Dunlap—Contract for 28 miles of macadam road in Sequatchie County awarded to CHICKAMAUGA QUARRY AND CONSTRUCTION CO.

Ohio, Shaker Heights—(Cleveland post office)—Bids were received for grading and flagging South Woodland Rd., Shaker Heights Village, from Walsh Construction Co., Citizens Bldg., at $25,322, and J. W. Chapman, 1653 Ridgefield Rd., at $25,176.

Ohio, Toledo—BREYMANN & O'NEILL, Nasby Bldg., awarded contract for grading, draining and macadamizing with water bound macadam Otter Creek Rd., Oregon Township. Noted Nov. 18.

Ind., New Albany—Contract for road in New Albany Township awarded to W. F. WOODRUFF, Louisville, Ky., at $12,462. Noted Nov. 11.

Ill., Berwyn—Contract for 21,349 lin.ft. of sidewalks awarded to FREDERICK ASP, Maywood, at $12,169.

Ill., Ottawa—Contract for hard surfacing four miles of drives through Illinois State Park awarded to W. J. BRENNAN, La Salle, at $14,990.

Kan., Lawrence—Contract for 15,000 sq.yd. of brick paving awarded to A. R. YOUNG. E. H. Dunmier, City Engr.

Kan., Pittsburg—Contract for repaving Broadway awarded to WILLIAMS CONSTRUCTION CO., Joplin, Mo., at $35,176. L. E. Curfman, City Engr. Noted Oct. 14 and Nov. 18.

Mo., Kansas City—Contract for grading Meyer Blvd. from Paseo to Wornall Rd. awarded to W. C. MULLINS, 24th and Wyandotte St., at $25,000.

Mo., Springfield—Contract for paving Bonvile St. from Division to Pine St. and two feet on each side of tracks of Springfield Traction Co. awarded to PLUMMER-ADAMS CO., at $13,500.

Tex., Austin—Contract for paving about 50,000 yd. of streets awarded to TEXAS BITULITHIC CO., at about $100,000. M. C. Wellborn, City Engr.

Tex., Dallas—Contract for paving Bryan Parkway awarded to VIBROLITHIC CO., at $7,550. J. M. Preston, City Engr. Noted Oct. 28.

Wash., Walla Walla—(Official)—Contract for two miles of highway near Whitman's Station awarded to L. LANNING, Boyer Ave. and Blue St., Walla Walla, at $4,900. G. C. Cookerly, City Engr. Noted Nov. 18.

Ore., Pendleton—(Official)—Contract for improving Riverside Drive from Main to Railey St. awarded to WARREN CONSTRUCTION CO., Portland, at $4,780. Noted Nov. 4 and 18.

Calif., Antioch—Bids were received by City Trustees for paving a number of streets as follows: Raisch Improvement Co., San Francisco, $15,489; McGillivray Construction Co., Sacremento, $15,891; City Improvement Co., San Francisco, $21,850.

Calif., Glendale—Contract for improving portions of Grand Blvd., Doran and First St. awarded to GEORGE H. OSWALD, Los Angeles, at $25,988.

Calif., Huntington Beach—Contract for paving Main and other streets awarded to GEORGE H. OSWALD, Los Angeles, at about $81,481.

Calif., Los Angeles—Contract for improving Westmoreland Ave. awarded to WATTSON & SPICER, at $11,596.

Calif., Pasadena—Contract for improving Prospect Blvd. awarded to ANDREW HOLLOWAY, at $5,038.

Calif., Sacremento—Contract for road work in Mariposa County, Div. 6, Route 18, Sec. A, awarded to GEORGE R. DALEY, San Diego, at $42,748; and for Div. 111, Route 3, Sec. B, Placer County, to A. W. GORRILL, San Francisco, at $47,339. Noted Oct. 7 and Nov. 4.

Calif., San Francisco—Contract for paving section of East St. awarded to K. ERHART, at $11,294.

INDUSTRIAL WORKS

Proposed Work

Conn., New Haven—Plans prepared by Frank Elwood Brown, Arch., for three-story, 50x135-ft. plant for New Haven Dairy Co., 159 Hazel St. Noted Nov. 25.

N. Y., New York—(Borough of Brooklyn)—Plans being prepared for six-story factory for Bush Terminal Co. foot 43d St., Brooklyn. Estimated cost, $10,000.

N. Y., New York—(Borough of Brooklyn)—Bids will soon be received for two-story, 50x75-ft. garage for Albert H. Marquis, 4311 Brandon Ave. Estimated cost, $10,000.

N. Y., New York—(Borough of Queens)—Plans being prepared for two-story, 50x100-ft. and one-story, 50x75-ft. factory for H. W. Beyer & Co., 507 West 50th St., New York. National Fireproofing Co., 949 Broadway, New York, Arch.

New York, N. Y.—(Borough of Queens)—(Official)—Contract will soon be awarded for six-story, 117x217-ft. reinforced-concrete factory for Gustav Sandblom, Inc., 30 East 42 St., New York, N. Y. (Borough of Manhattan), at Skillman, Moore and Foster Ave. Estimated cost, $100,000.

N. Y., Woodbury—Plans being prepared for two-story, 100x100-ft. garage for Otto H. Kahn, 52 William St., New York, N. Y.

N. J., Belleville—Press reports state that Pathe Freres Phonograph Co. plans a four-story addition to its plant on Cortland St.

Penn., Bellefonte—Plans prepared for two-story bakery for J. Ceaders. Estimated cost, $20,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Penn., Chester—Plans being prepared by Wadleigh & Osbourn, Real Estate Trust Bldg., for superstructure of plant on Delaware River for Stewart Distilling Co., Philadelphia. Estimated cost, $500,000. Noted Sept. 30.

Penn., Philadelphia—Plans being prepared for a three- or four-story mill and power house at Reed, Dickinson, 25th and 26th St. for S. B. & B. W. Fleisher, Eighth and Chestnut St. William Steele & Sons Co., 1600 Arch St., Engr.

Penn., Reading—Plans being prepared by F. A. Muhlenberg, Arch., for 100x220-ft. factory on South Eighth St. for Pennsylvania Optical Co.

Penn., Scranton—Ford Motor Co. contemplates building three-story, 60x100-ft. service building. Estimated cost, $12,000.

Md., Baltimore—C. W. Christian, 401 East 25th St., plans to establish factory.

Md., Baltimore—Plans prepared for one-story, 150x150-ft. garage at Maryland Ave. and 27th St. for T. W. Cooke.

Va., Martinsville—American Furniture Co. will build an addition to plant. Estimated cost, $25,000.

Va., Petersburg—Contract will be awarded about Dec. 10 for two-story, 40x120-ft. laundry for White Cross Laundry Corporation. Estimated cost, $18,000.

Va., Port Norfolk—(Portsmouth post office)—Bids will be received about Jan. 5 for 100x240-ft. addition to plant at Port Norfolk, of South Hill Manufacturing Co., South Hill.

Va., Winchester—C. L. Robinson Ice and Cold-Storage Corporation will build 150x150-ft. plant. C. L. Robinson, Pres.

N. C., Asheville—Asheville Milling Co. will rebuild plant recently destroyed by fire.

Ga., Atlanta—It is reported that Chevrolet Motor Co., Flint, Mich., contemplates building assembling plant at Atlanta.

Ga., Augusta—Gorgan & O'Dowd contemplates building 190x250-ft. warehouse on Ninth St.

Ga., Savannah—Georgia Land and Cattle Co. will establish a stockyard, abattoir, etc.

Fla., Jacksonville—Plans prepared for two-story, 56x125-ft. ice cream plant for Purity Ice Cream Corporation. Estimated cost, $40,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Penn., Arch.

Ala., Anniston—Polar Ice and Coal Co., will build one-story, 40x50-ft. addition to plant. Estimated cost, $10,000.

Ala., Georgiana—McGowin-Bennett Milling Co. will establish an ice plant. Estimated cost, $10,000.

Ala., Mobile—Joseph F. Durham secured grain elevator of Mobile & Ohio R.R. and will organize a company for the purpose of improving the elevator. Estimated cost, $40,000.

La., New Orleans—(Official)—Bids will be received by Ernest M. Loeb, Pres., Bd. of Comrs. of Port of New Orlens, Suite 200, New Orleans Court Bldg., until 8 p.m., Dec. 20, for reinforced-concrete elevator on east bank of Mississippi River. (See adv.)

Tenn., Chattanooga—Plans prepared for garage and sales building for Hamilton Motor Car Co.

Ky., Carlisle—Carlisle Electric and Power Co. will construct and equip an ice plant.

Ky., Cynthiana—Burley Tobacco Co., Lexington, will build sales warehouse at Cynthiana.

Ky., Louisville—Plans prepared for two-story brick packing plant for C. F. Vissman & Co. Estimated cost, $10,000.

Ohio, Akron—Mason Tire & Rubber Co., Kent, plans a factory in Akron. Estimated cost of building and equipment, $60,000.

Ohio, Cincinnati—Bids will soon be received for six-story, 65x102-ft. garage and salesroom for Graydon Estate. Estimated cost, $100,000. Elzner & Anderson, 135 Ingalls Bldg., Cincinnati, Arch.

Ohio, Cleveland—Plans being prepared for two four-story, 160x350-ft. and 143x512-ft. factories for Properties Co. O. M. Stafford, Pres.

Ohio, Cleveland—City plans automobile repair shop. Estimated cost, $15,000. Robert Hoffman, City Engr.

Ohio, Cleveland—Weideman Co. will build warehouse and garage at 924 Mandrake Ave. Estimated costs, $70,000 and $12,000, respectively. W. S. Lougee, Marshall Bldg., Arch.

Ohio, Columbus—Plans being prepared by H. C. Holbrook, Arch., for one-story, 40x130-ft. addition with two wings 30x40-ft. and 15x60-ft. to plant of Union Oil Cloth Co., Spruce St.

Ohio, East Liverpool—Columbia Steel Co., recently incorporated by East Liverpool and Pittsburgh capitalists, purchased site near Ohio-Pennsylvania line and Ohio River on which the company plans to build plant. Estimated cost, $600,000.

Ohio, Hamilton—A plant for extracting light oils from tar and ammonia will be constructed by the Hamilton Otto Coke Co. Estimated cost, $80,000.

Ohio, Lima—Plans prepared for roundhouse for Lake Erie & Western R.R. Estimated cost, $50,000. J. K. Connor, Indianapolis, Ind., Ch. Engr.

Ohio, Painesville—Preliminary plans being prepared for two-story ice plant for E. W. Moore. F. N. Downer, Painesville, Arch.

Ohio, Robertsville—Canton Clay Products Co., recently incorporated with $75,000 capital stock, will build brick plant about ½ mile east of Robertsville. C. A. Bourgouis, interested.

Ohio, Sebring—Sebring Rubber Co. contemplates building two-story, 60x190-ft., factory. Estimated cost, $20,000.

Ohio, Springfield—Robbins & Myers Co. will build four-story, 300x300-ft. addition to plant. Estimated cost, $150,000. C. F. McGilvray, Pres.

Ind., Indianapolis—Preliminary plans being prepared by J. Edwin Kopf, Arch., for three-story garage for Cadillac Automoble Co. C. F. Eckler, 500 Capital Ave., Indianapolis, Mgr.

Ind., Muncie—Plans prepared for two new factory buildings for T. W. Warner Manufacturing Co. Estimated cost, $100,000.

Ind., Shelbyville—A. Hirschburg, Shelbyville, will build two-story, 32x150-ft. garage.

Mich., Detroit—J. H. Schmidt will build 50x150-ft. garage on Third St., to be occupied by the La Bell Motor Co. Estimated cost, $20,000.

Mich., Grand Haven—Plans being prepared for one and two-story, 70x140-ft. factory for Challenge Refrigerating Co.

Mich., Lansing—Plans being prepared for three-story warehouse for National Grocery Co., 123 North East St. A. Bowd, 127 West Allegan Ave., Lansing, Arch.

Ill., Chicago—Joseph Dvorak will build one-story garage at 3854-62 Ogden Ave. Estimated cost, $13,500.

Ill., Freeport—Plans prepared for enlarging roundhouse and building addition to tool house of Illinois Central R.R. Estimated cost, $30,000. A. S. Baldwin, Chicago, Ch. Engr.

Ill., Joliet—Bates Machine Co. plans expenditure of $100,000 for enlarging and improving its plant at Henderson Ave. and Jackson St.

Wis., Milwaukee—Bids will soon be received by L. E. Oberst, Arch., for three-story molasses feed plant for Milwaukee Grain & Feed Co., 512 Commerce St. Estimated cost, $25,000.

Wis., Sauk City—Farmers Packing Co. contemplates building packing plant. Estimated cost, $100,000. M. P. Schneider, 401 West Doty St., Madison, Wis., Arch.

Iowa, Des Moines—Plans being prepared by F. W. Clarke, 683 Brandels Bldg., Omaha, Neb., for three-story, 45x160-ft. warehouse for Farmers Coöperative Produce Co.

Minn., Mankato—Mankato Bread Co. contemplates building three-story, 38x120-ft. factory.

Minn., Minneapolis—Pence Auto Co. will build eight-story, 132x308-ft. warehouse. Chapman & Magney, Essex Bldg., Minneapolis, Arch.

Minn., St. Paul—Plans being prepared for three-story, 100x150-ft. plant for Brown, Blodgett & Sperry Co. Estimated cost, $50,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, Arch.

Mo., Kansas City—It is reported that Chevrolet Motor Co., Flint, Mich., contemplates building assembling plant at Kansas City. Estimated cost, $750,000.

Mo., Kansas City—Willys-Overland Co., Toledo, Ohio, has purchased a site at Kansas City and will build six-story plant.

Mo., St. Louis—Lowell Bleachery, Lowell, Mass., will build branch factory at St. Louis. Estimated cost, $200,000.

Ark., Jonesboro—Plans prepared for two-story, 23x110-ft. cold storage plant for Jonesboro Ice Co.

Tex., Dallas—Reported that Studebaker Corporation, Detroit, Mich., will build branch distributing plant at Dallas.

Tex., Dallas—T. B. Burnett & Co. will build mattress factory at Dallas. Estimated cost, $300,000

Tex., El Paso—Proposition submitted to El Paso Chamber of Commerce by J. T. Ward, Denver, Colo., for establishing factory at El Paso for manufacture of automobile tires.

Tex., Houston—National Oil and Gas Co. will build oil refinery. Estimated cost, $200,000.

Tex., Houston—Plans prepared by Finger & Bailey, Arch., Houston, for four-story, 130x140-ft. reinforced-concrete warehouse for Magnolia Paper Co. Estimated cost, $100,000. Noted Nov. 18.

Tex., Orange—Plans prepared for rebuilding plant of Lutcher & Moore Lumber Co. which was destroyed by fire with a loss of $150,000. Noted Aug. 19.

Okla., McAlester—A. C. Murray, Clarksville, Tenn., organized a company with capital of $50,000, and will build an ice plant.

Okla., Sand Springs—Sand Springs Home will build two-story, 50x110-ft. factory. E. A. Page, Secy.

Okla., Tulsa—Nichols Transfer and Storage Co. will erect three-story, 40x140-ft. reinforced-concrete building.

Wash., Tacoma—E. I. Du Pont de Nemours Powder Co. plans to build four new buildings south of Tacoma. Estimated cost, $40,000. I. J. Cox, Supt.

Ore., Portland—Plans being prepared for two-story, 80x175-ft. planing mill for Frank Schmidt & Co. Estimated cost, $10,000.

Ont., Sandwich—United States Steel Corporation, 71 Broadway, New York, N. Y., will establish plant at Sandwich.

Bids In and Contracts Awarded

Mass., Beverly Farms—Contract for garage for J. A. L. Blake awarded to HOLT-FAIRCHILD CO., 1001 Old South Bldg., Boston. Estimated cost, $10,000.

Mass., Readville—Stafford Co., Hyde Park, awarded contract for foundry to J. J. PRINDIVILLE CO., South Framingham. Estimated cost, $40,000.

Conn., Goshen—Contract awarded to W. A. SMITH & SON, 188 Cannon St., Bridgeport, for two-story garage for W. B. Lashen, 647 Clinton Ave., Bridgeport. Estimated cost, $15,000.

N. Y., Buffalo—Contract awarded to JOHN A. ZOLL, 398 Bird Ave., Buffalo, for four-story, 55x71-ft. warehouse and elevator for Eldad Milling Co. Estimated cost, $30,000.

N. Y., New York—(Borough of Manhattan)—Contract for three-story, 100x225-ft. printing building for Consolidated Gas Co., 4 Irving Pl., awarded to ROBERT J. ALGIE, 141 West 41st St. Estimated cost, $65,000.

N. J., Jersey City—Contract for three-story, 70x200-ft. factory building for Davis-Bournonville Co. awarded to JOHN N. GILL & CO., 1215 Filbert St. Estimated cost, $70,000.

N. J., Newark—Interstate Creamery Co. awarded contract to M. MILLER, 11 Highland Ave., Newark, for two-story, 58x110-ft. plant. Estimated cost, $16,000.

N. J., Passaic—Contract awarded to J. J. O'LERAY, 500 Bloomfield Ave., Passaic, for flour mill for New Jersey Flour Co. Estimated cost, $11,000.

Penn., Allentown—Solomon Lipschutz awarded contract for three-story, 52x60-ft. cigar factory to W. A. STEIN & Co., North Fulton St., Allentown. Estimated cost, $12,000.

Penn., Bryn Mawr—Contract awarded to GRAY BROS., Rosemont, for garage for E. L. Blabon. Estimated cost, $75,000.

Penn., Conteaville—UNITED ENGINEERING AND FOUNDRY CO., Youngstown, Ohio, awarded contract for plate rolling mill for Lukens Iron and Steel Co.

Penn., Monessen—Contract for two open-hearth furnaces for Pittsburgh Steel Co., Pittsburgh, awarded to LOCKMAN BROS., Pittsburgh. Estimated cost, $500,000.

Penn., Philadelphia—Contract for four-story, 89x98-ft. brick and reinforced-concrete shop at 18th and Buttonwood Sts. for Baldwin Locomotive Works awarded to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. Noted Dec. 2.

Penn., Philadelphia—Contract for garage at Kinsey and Paul St. for E. S. Gilmour, 4712 Penn St., awarded to JOHN McSHAIN, 1610 North St., Philadelphia.

Penn., Philadelphia—Contract for two warehouses at 19th and Glenwood Ave. for Hale & Kilburn Co. awarded to H. E. EATON, 12th and Sansom St., Philadelphia. Estimated cost, $23,000.

Del., Wilmington—Contract for garage for Tourist Garage Co. awarded to WILLIAM SCHOOLMASTER, Wilmington. Estimated cost, $10,000.

Md., Baltimore—Hess Steel Co. awarded contract for factory to DIETRICH BROS., Baltimore. Estimated cost, $30,000.

Ga., Athens—Georgia R.R. awarded contract to HINTON & STEWART, Athens, for warehouse at Foundry and Board St. Estimated cost, $16,000. Noted Nov. 18.

Ga., Columbus—Bibb Manufacturing Co. awarded contract to T. C. THOMPSON CO., Greenville, S. C., for addition to plant at 23d and River St. Estimated cost, $200,000. Noted Nov. 18.

Ga., Macon—Buckeye Cotton Oil Co. awarded contracts for 70x200-ft. seedhouse and warehouse to H. B. HOHENDIETZEL CO., Macon, for concrete foundation and side walls, to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., for steel roof.

Fla., Jacksonville—Contract awarded to O. P. WOODCOCK, Jacksonville, for warehouse for Estate of M. H. Basnett. Estimated cost, $22,000.

Ky., Glasgow—Glasgow Motor Car Co. awarded contract to EDWARD FORD, Glasgow, for two-story, 70x127-ft. garage. Estimated cost, $14,000.

Ky., Harrodsburg—Contract awarded to WALLKER PARSONS, Harrodsburg, for 83x96-ft. garage for Ft. Harrod Garage Co. Estimated cost, $10,000.

Ky., Lexington—Contract awarded to McCORMICK LUMBER CO., Lexington, for two-story, 50x400-ft. warehouse for Farmers Home Tobacco Warehouse Co. Estimated cost, $15,000.

Ky., Louisville—Contract awarded to L. V. ABBOTT, Louisville, for 80x432-ft. plant for Hoosier Veneer and Panel Co. Estimated cost, $40,000.

Ohio, Carthage—(Cincinnati post office)—Contract for addition to plant of Hess Spring and Axle Co. awarded to J. R. STEVENS CO., Odd Fellows Temple, Cincinnati. Estimated cost, $30,000. Noted Dec. 2.

Ohio, Cleveland—Contract for one-story, 77x135-ft. storage building for Multigraph Co. awarded to MASTERS & MULLEN CO., 601 Electric Bldg., Cleveland. Estimated cost, $10,000.

Ohio, Cleveland—Contract for three-story, 33x97-ft. factory and office building for National Carbon Co., 11,900 Madison Ave. awarded to HUNKIN-CONKEY CONSTRUCTION CO. Estimated cost, $16,000.

Ohio, Cleveland—Contract for storage plant for City Ice Delivery Co. awarded to W. I. THOMPSON CO., Cleveland. Estimated cost, $20,000.

Ohio, Cleveland—(Official)—Contract for addition to plant of Federal Knitting Mills Co. at Detroit and West 28th St. awarded to H. G. SLATMYER, 103 Lakeside Ave., Cleveland. Estimated cost, $40,000. Noted Nov. 25.

Ohio, Hamilton—Contract for two-story, 42x110-ft. building for Eickenberry Bros. awarded to BURRELL ENGINEERING AND CONSTRUCTION CO., Chicago, Ill., at $12,000.

Ohio, Kings Mills—Contract awarded to WELLS & GRAY, Toronto, Ont., for four-story, 65x416-ft. factory for Peters Cartridge Co. Estimated cost, $250,000. F. C. Tuttle, 1701 First National Bank Bldg., Cincinnati, Secy.

Ohio, Middletown—Contract for addition to plant of P. A. Sorg Paper Co. awarded to CALDWELL & ISEMINGER. Estimated cost, $10,000.

Ohio, Toledo—Electric Auto Lite Co. has taken out a permit for three-story reinforced-concrete factory building at 1209 Champlain St. Estimated cost, $73,000. Noted Nov. 4.

Ohio, Warren—Ohio Corrugating Co. will build one-story, 80x200-ft. factory by day labor.

Ohio, Youngstown—Contract for benzol factory for Youngstown Sheet and Tube Co. awarded to SEMET-SOLVAY CO., Syracuse, N. Y. Estimated cost, $450,000.

Ind., Richmond—Contract awarded to A. M. FRY, Piqua, Ohio, for three-story, 88x124-ft. warehouse for Miller Bros. Hardware Co.

Ill., Chicago—Fisher Furniture Co. awarded contract for three-story factory at 400 North May St. to CHICAGO IRON AND STEEL WORKS, 733 Fulton St., Chicago, for structure and miscellaneous iron. Noted Dec. 2.

Ill., Chicago—Chicago & Northwestern Ry. has awarded contract for grain elevator to be leased by Armour Grain Co. to WITHERSPOON-ENGLER CONSTRUCTION CO., Chicago. Estimated cost, $2,000,000. Noted Dec. 2.

Ill., Chicago—Contract for freight storage building for Pennsylvania R.R. awarded to GEORGE A. FULLER CO., Chicago. Estimated cost, $2,500,000. Noted Aug. 19.

Wis., Milwaukee—Contract for addition to plant of Cudahy Packing Co. awarded to W. F. TUBESING. Estimated cost, $50,000.

Minn., Duluth—Contract for addition to elevator plant of Capitol Elevator Co. awarded to BARNETT-RECORD CO. Estimated cost, $700,000.

Wash., Seattle—MacRae Bros., Empire Bldg., Seattle, at $16,394 submitted lowest bid for garage at 11th and Pine St. for Charles Frisell, to be occupied by Metz Auto Co.

Calif., San Pedro—Contract for concrete warehouse for Harbor Commissioners awarded to MERCHANTS REALTY AND INVESTMENT CO., Van Nuys Bldg., Los Angeles, at $117,139. Noted Nov. 25.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Portsmouth—Oil Tank—U. S. Navy Department contemplates fuel-oil tank with capacity of 2,000,000-gal. About $40,000 available for this purpose.

N. Y., Ft. Totten—Wharf—Bids will be received until 10 a.m., Dec. 15, by A. J. Cooper, C. A. C., for repairs to short wharf. Noted Oct. 7.

N. J., Sea Girt—Bulkheads and Jetties—Bids will soon be received for new bulkheads and jetties at state rifle range, Sea Girt. Estimated cost, $10,000. John D. Kilpatrick, Maj. of Quartermaster Corps.

D. C., Washington—Dredging—Bids will be received at U. S. Engineer office, Room 305, Southern Bldg., Washington, until noon, Dec. 18, for dredging in Anacostia River.

W. Va., Wheeling—Power House—Bids will be received at U. S. Engineer Office, Wheeling District, Wheeling, until 11 a.m., Jan. 6, for fireproof power house at Dam No. 14, Ohio River. (See adv.)

Fla., Key West—Repairing Breakwater—Bids will be received at U. S. Engineer office, Jacksonville, until noon, Dec. 31, for repairing breakwater at Ft. Taylor, Key West.

Tenn., Memphis—River Improvements—Plans being prepared by U. S. Engineers for canal to direct flow of Wolf River into Isle of Mad chute to wash out Memphis Harbor and maintain channel. About $55,000 available for this work at present time but approximately $150,000 will be necessary to complete project. Col. McD. Townsend, Chn. of Mississippi River Comn. Major E. M. Markham, Engr.-in-Charge.

Mich., Sault Ste. Marie—Timber—Bids will be received at U. S. Engineer Office, 337 Federal Bldg., Detroit, until noon, Dec. 15, for 110,000 ft. b.m. of white oak timber. (See adv.)

Tex., Galveston—River Improvements—Plans being prepared by C. S. Riche, U. S. Engr., for system of locks and dams for Guadalupe River near Victoria. Estimated cost, $800,000.

Idaho, Boise—Post Office—All bids received Nov. 18 for addition to U. S. post office at Boise rejected. New bids will be received. Noted Oct. 14 and Nov. 25.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Post Office—Contract for post office at 4th Ave. and 13th St. for Estate of Charles A. Chesebrough to be leased by U. S. Government awarded to JOHN H. DEEVES & BROS., 103 Park Ave., New York. Estimated cost, $50,000. Noted Nov. 18.

D. C., Washington—Building—Bids were received by Commissioners of District of Columbia, Nov. 30, for addition and alterations to Powell School as follows: Burgess & Parsons, Washington, $60,000; A. L. Guidone & Sons, $60,450; Melton Construction Co., $61,295. Noted Nov. 25.

Va., Norfolk—Dredging—Contract for dredging at navy yard Norfolk, awarded to BAY STATE DREDGING AND CONTRACTING CO., Atlantic Ave., Boston, Mass. Estimated cost, $100,000. Noted Nov. 4 and Dec. 2.

Fla., Pensacola—Paving—Bids were received Dec. 4 for concrete pavement at navy aeronautic station, Pensacola, as follows: C. H. Turner Co., Pensacola, $6,959; William A. Burnett, Houston, $9,916; Henry Monk, Pensacola, $11,334. Noted Nov. 11.

Ohio, Elyria—Post Office—Contract for U. S. post office at Elyria awarded to JOHN G. UNKEFER & CO., Minerva, at $78,481. Noted Oct. 14 and Nov. 25.

Ohio, Sidney—Post Office—Contract for U. S. post office at Sidney awarded to OHIO BUILDING AND CONSTRUCTION CO., Cincinnati, at $51,650. Noted Oct. 7 and Nov. 18.

Colo., Grand Junction—Canal Work—Contracts for canal work at Grand Junction awarded as follows: Schedules 1 to 8, REYNOLDS-ELY CONSTRUCTION CO., Springville, Utah, at $28,534; schedule 9, HENRY WILSON, CARL HICKS and H. H. WILSON, Fruita, at $3,323; schedule 10, C. S. KIRKENDALL and JOHN E. NELSON, Fruita, at $2,801; schedule 11, SAM KLOZKO, Loma, at $1,649; schedule 12, J. M. GROESBECK, Springville, Utah, at $2,937; schedule 13, J. O'BRYAN, Fruita, at $2,364; schedule 14, J. W. COLLIER, Grand Junction, at $1,323; schedule 15, WADE COLLIER, Grand Junction, at $1,420; schedule 16, CHARLES E. LUTZ, Loma, at $1,578. Noted Oct. 21.

Hawaii, Pearl Harbor—Buildings—Bids were received Dec. 4 by H. R. Stanford, Ch. of Bureau of Yards and Docks, for three buildings at naval station, Pearl Harbor, (a) power house, (b) operating building, (c) double quarters for chief operators, (d) work complete as follows: Spalding Construction Co., San Francisco, Calif., (a) $12,023, (b) $10,127, (c) $9,535, (d) $31,685; Construction and Engineering Co., San Francisco, Calif., (a) $11,471, (b) $9,722, (c) $8,129, (d) $29,322. Noted Nov. 11.

CANALS, DITCHES, IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—Bids will be received early next year for barge canal work under Terminal Contract No. 51. Estimated cost, $8,379. W. W. Wotherspoon, State Supt. of Pub. Wks.

N. Y., Albany—(Official)—Canal—Bids will be received by W. W. Wotherspoon, State Supt. of Pub. Wks., until noon, Jan. 4, for completing construction of canal from Northumberland to Stillwater, Contract No. 73A. Estimated cost, $432,045.

N. Y., Albany—(Official)—Canal—Bids will be received early next year for completing canal from station 5130 near Sterling Creek to Herkimer-Oneida County line, Contract No. 29-A. Estimated cost, $162,005. W. W. Wotherspoon, State Supt. of Pub. Wks.

N. Y., Albany—(Official)—Canal—Bids will be received early next year for completing canal from about station 2449 about 400-ft. east of Genesee River to about station 2566-58 about 42-ft. from east end of Contract No. 6, work to be done under Contract No. 21-A. Estimated cost, $415,700. W. W. Wotherspoon, State Supt. of Pub. Wks.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—All bids received for derdging in North River from 103d St. to 109th St. rejected. New bids will be received until 3 p.m., Dec. 16 by Park Board, Dept. of Parks, Municipal Bldg., New York. Cabot Ward, Pres. Noted Dec. 2.

N. J., Trenton—Canal—Surveys will be made for proposed ship canal between Delaware River and Raritan Bay by State Department of Commerce and Navigation. Next legislature will be asked to appropriate $500,000 to purchase proposed canal.

Fla., Largo—Drainage—Contract will soon be awarded for drainage system for Lake Largo-Cross Bayou Drainage District. Estimated cost, $220,000.

Ohio, Cincinnati—(Official)—Ditch—Bids will be received by Fred E. Wesselmann, Pres., Bd. of Comrs. of Hamilton County, until noon, Dec. 17, for building ditch on Harrison and New Haven Rd., Crosby Township.

Wis., Racine—Drainage—Plans being prepared for 14 miles of open ditch and 15 miles of 18- to 24-in. drain tile for Root River Drainage District Commission. Estimated cost, $80,000.

Iowa, Emmetsburg—Drainage—Palo Alto County plans to construct drainage ditch. Estimated cost, $129,000. G. R. Campbell, interested.

Iowa, Tipton—(Official)—Ditch—Bids will be received by Jesse O. Bowlin, Supt. of Constr., until 2 p.m., Dec. 18, for constructing James A. Dunham ditch in Jefferson Township.

Iowa, Wall Lake—Drainage—Contract will be awarded about Apr. 1 by Board of Supervisors of Sac County for straightening and deepening Boyer River and draining Goose Pond Swamp. Estimated cost, $81,000. Seth Dean, County National Bank Bldg., Glenwood, Engr. Noted Dec. 2.

Kan., Dayton—Drainage—Property owners plan to organize Drainage District No. 1, Saline County. Proposed district will include portions of 10 sections in Dayton Township lying between Solomon River and Union Pacific main line.

Kan., Manhattan—Drainage—C. F. Pfentze interested in organization of drainage district to include three miles of open ditch work. Estimated cost, $10,000.

Kan., Ozawkie—Drainage—Contract will be awarded about Feb. 1 by Delaware River Drainage District for about 31,000 cu.yd. of work on six cutoffs on Peck Creek, about four miles from Newman on Union Pacific R. R. H. A. Plough, Secy., H. B. Walker, Manhattan, Engr.

Kan., Salina—Drainage—Plans being prepared for drainage work in District No. 1. Estimated cost, $12,000. P. A. Tobin, 109 North Santa Fé St., Engr.

Kan., Solomonn—Drainage—Contract will soon be awarded for approximately 80,000 cu.yd. of open ditch work for Drainage District No. 1, Salina County, about three miles from Solomon. H. B. Walker, Manhattan, Engr.

Kan., Strong City—Drainage—Drainage District recently organized in Chase County will build about two miles of open ditches requiring about 70,000 cu.yd. of excavation. Estimated cost, $10,000. H. B. Walker, Manhattan, Engr. Noted Sept. 23.

Wyo., Casper—Irrigation—Surveys made for irrigating and reclaiming about 8,000 acres on Bessemer Flats, about 14 miles southwest of Casper. Estimated cost, $100,000. A. C. Reeves, New York, N. Y., interested.

Mo., Louisiana—Drainage—Bids will be received about Jan. 1 for 13 miles of levees for River Land Drain District. J. Cherry, Jacksonville, Mo., Chn.

Mo., Poplar Bluff—(Official)—Ditches—Bids will be received by John H. Greason, Engr., Drainage District No. 11, Butler County, Court House, until Jan. 10 between 1 and 3 p.m., for constructing four drainage ditches and cleaning out one slough; also for constructing one wooden bridge across Main Ditch. (See adv.)

Tex., Brownsville—Irrigation—La Feria Mutual Canal Co. will extend canal irrigation system, to include 25 miles of main canals and 75 miles of laterals. Estimated cost, $150,000.

Tex., Lagrange—Drainage—Colorado County Drainage District No. 1 will issue $17,000 bonds for drainage system.

Ore., Gateway—Irrigation—Bidwell Cram, Gateway, granted permission by State Engineer to appropriate water from Trout Creek to irrigate about 507 acres near Gateway. Estimated cost, $14,000.

Ore., Grants Pass—Irrigation—Plans being prepared by W. B. Sherman for irrigation system and power plant for Rogue River Public Service Corporation. Estimated cost, $200,000. Noted Nov. 11.

Calif., Richvale—Drainage—Richvale Drainage District to drain about 20,000 acres will be organized by property owners.

Calif., Thermalito—Irrigation—Thermalito Irrigation District, recently organized, contemplates $250,000 bond issue to irrigate 6,000 acres. W. E. Duncan, Jr., Attorney. Noted Nov. 18.

Bids In and Contracts Awarded

Mass., Boston—Dredging—All bids received Nov. 24 by Directors of Port of Boston for dredging and filling East Boston, about 1,500,000 cu.yd., rejected. Noted Nov. 18 and Dec. 2.

N. Y., New York — (Borough of Brooklyn) — (Official) — Dredging—Contract for dredging Gowanus Canal from its head to Hamilton Ave., 6,000 cu.yd., awarded to R. G. PECKARD CO., 133 Greenwich St., New York, at 89c. per cu.yd. Noted Nov. 25.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Contract for dredging at foot of 90th St. and East River, awarded to MORRIS & CUMMINGS DREDGING CO., 17 State St., New York, at 0.33c. per cu.yd. Noted Dec. 2.

S. C., Anderson—Dredging—Drainage Commission of Rocky Creek Drainage District No. 1, Anderson County, awarded contract to L. O. WHITE, Statesville, N. C., for dredging Rocky River, about ten miles. Estimated cost, $19,500. Noted Aug. 12.

Ill., Forest City—Ditch—Commissioners of Tazewell and Mason County District awarded contract for cleaning Gray, Reed and Bratt ditches to the CHESTER MASON CO., Mason City.

Wis., Caledonia—Canal—Contract for Caledonia Drainage Canal awarded to NATIONAL DRAIN TILE CO., Streator, Ill., at $15,000.

Iowa, Spencer—Ditch—(Official)—Contract for Drainage Ditch No. 28 awarded to CEMENT PRODUCTS CO., Spencer, at $59,780. Noted Oct. 28.

Minn., Bemidji—Ditches—Contract for construction of Judicial Ditch No. 34 awarded to LESTER E. GESELL and FRED A. BLAKE, Thief River Falls. Noted Nov. 11 and Dec. 2.

Minn., Redwood Falls—(Official)—Ditch—Contract for County Ditch No. 27 awarded to B. P. JENNINGS, Wanda, at $11,998. Noted Nov. 25.

Tex., Athens—(Official)—Flood Gates—Contract for flood gates impounding 1,000 acres of water for the Koon Klub awarded to AUSTIN BROS., Dallas. Henry E. Elrod, Southwestern Life Bldg., Dallas, Engr.

Tex., Orange—(Official)—Dredging—John Jacobson, Texas City, at 6.2c. per cu.yd. submitted lowest bid for dredging slips for wharfs and docks, 750,000 cu.yd. E. U. Henry, City Engr. Noted Nov. 18.

Calif., Modesto—Irrigation—Contract for concrete facing and curtain wall for Dam No. 1 awarded to PEART BROS., Oakland, at $72,800. Noted Nov. 18.

MISCELLANEOUS

Proposed Work

N. Y., Niagara Falls—Elimination of Grade Crossing—Grade Crossing Commission plans to eliminate grade crossing in Lockport, Whirlpool and Portage St. John L. Harper, Comn. Engr. Estimated cost, $485,000.

N. Y., Syracuse—Flood Protection—Report has been submitted to Flood Commission by John C. Hoyt of Water Resource Branch of U. S. Geological Survey, Washington, D. C., estimating cost of making surveys to prevent recurrence of Onondage Creek floods between $20,000 and $50,000.

Penn., Philadelphia—Subways and Elevated Railways—Election will be held Feb. 8 to vote on $45,000,000 bonds for subways and elevated railways and $8,000,000 for port development

Penn., Pittsburgh—Playground—City plans to expend $10,000 for playground around two point bridges. R. Swan, Dir. of Pub. Wks.

W. Va., Wheeling—Swimming Pool—Plans prepared by F. F. Faris for swimming pool for West Virginia State Fair Association. Estimated cost, $25,000.

Ala., Mobile—Docks—Tentative plans will be prepared by Ford, Bacon & Davis, Engr., 921 Canal St., New Orleans, for docks.

La., New Orleans—(Official)—Wharf and Causeway—Bids will be received by Ernest M. Loeb, Pres. Bd. of Comrs. of Port of New Orleans, Suite 200, New Orleans Court Bldg., until 8 p.m., Jan. 5, for constructing Dumaine St. creosoted wharf and reinforced-concrete causeway with creosoted wood block roadway (See adv.)

La., New Orleans—(Official)—Piling and Lumber—Bids will be received by Ernest M. Loeb, Pres., Bd. of Comrs. of Port of New Orleans, Suite 200, New Orleans Court Bldg., until 8 p.m., Jan. 5, for furnishing piling, lumber, etc., to be used in construction of Dumaine St. wharf. (See adv)

Tenn., Knoxville—Underpasses—City Commission and Southern Ry. will construct five underpasses. J. B. McCalla, City Engr.

Tenn., Memphis—Subway—City Commission, Nashville, Chattanooga & St. Louis Ry. and Memphis Street Ry will jointly build subway at Lamar Ave. Estimated cost, $108,000.

Ohio, Akron—Subways and Bridge—B. F. Goodrich Co., manufacturer of rubber goods, granted permission by City Council for three subways and overhead bridge in Falor and Main St.

Ohio, Bellaire—Dock—Pennsylvania R.R. plans to build coal dock at Bellaire. Estimated cost, $65,000. A. C Shand, Philadelphia, Penn., Ch. Engr.

Ohio, East Liverpool—Tunnel—City Council plans to build tunnel under Thompson Hill to accommodate Grandview car line. Estimated cost, $40,000.

Wis., Milwaukee—Bath House—Plans being prepared by C. E. Mallg, Arch., Dept. of Pub. Wks., for bath house in McKinley Park Beach. Estimated cost, $50,000.

Mo., Springfield—Fish Hatchery—State will build fish hatchery near Springfield. Estimated cost, $15,000.

Tex., Houston—Pipe Line—National Oil & Gas Co. contemplates construction of 22 mile pipe line.

Que., Magog—Dam—Dominion Textile Co., Main St., plans to build dam.

Bids In and Contracts Awarded

N. Y., Bronxville—Elimination of Grade Crossing—Contract for eliminating grade crossing over Harlem division tracks of New York Central R.R. at Pondfield Rd. awarded to TRANSIT CONSTRUCTION CO., Mt. Vernon.

N. Y., New York—(Borough of Manhattan)—Alterations to Pier—Contract for alterations to Pier No. 64, North River, for Anchor Line S. S. Co. awarded to HENRY STEERS, INC., 17 Battery Pl. Estimated cost, $20,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Cement—Contract for 5,000 bags of portland cement awarded to MURTHA & SCHMOHL CO., 109th St., New York. Noted Nov. 4.

N. Y., New York—(Borough of Manhattan)—(Official)—(Subway)—Low bids received Nov. 30 by Public Service Commission of First District for Section No. 2, Route Nos. 19 and 22, part of Southern Blvd. and Westchester branch of Lexington Ave. subway were as follows: Lawrence C. Manuell, $2,063,877; Rodgers & Haggerty, $2,089,247; Cremshaw Engineering and Construction Co., $2,113,957. Noted Nov. 4 and 18.

N. Y., New York—(Borough of Manhattan)—Frogs and Switches—Bids were received Dec. 7 by Public Service Commission for special work, Order No. 6, for use in construction of Rapid Transit Railroads, frogs and switches for Lexington Ave. line, from Ramapo Iron Works, 30 Church St., New York, $48,195; William Warton, Jr., & Co., $48,815; Pennsylvania Steel Co., $54,043. Noted Nov. 25.

N. Y., New York—(Borough of Manhattan)—Subway—Bids were received Dec. 7 for part of Eastern District Subway, Section No. 3, Route No 8, under East River, from Manhattan at 14th St. to North Seventh St., Brooklyn, from Booth & Flinn, Ltd., 17 Battery Pl., New York, $6,631,000; Holbrook, Cabot & Rollins Corporation, $6,907,000; Degnon Contracting Co., $7,231,000; McMullen & Hoff, $9,467,000. The above are unofficial totals. Noted Nov. 18.

Penn., Philadelphia—Pier—Contract for dredging in connection with Pier No. 78, foot of McKean St. awarded to AMERICAN DREDGING CO., at $75,000; substructure of pier to SNARE & TRIEST CO., Woolworth, Bldg., New York, N. Y., at $575,000. Low bids received Dec. 6 for superstructure were as follows; Snare & Triest Co., $488,600; Irwin & Leighton, $494,800; Pennsylvania Steel Co., $495,300. Noted Aug. 26, Nov. 11 and 25.

La., New Orleans—Wharf—Contract awarded to DOULLUTT & WILLIAMS, New Orleans, at $188,000 for piling, timber, etc., for wharf of grain elevator, wharf is 1,350 ft. long and 12 ft. wide. Noted Dec. 2.

Minn., Two Harbors—Ore Docks—(Official)—Contract for superstructure of concrete ore dock for Duluth & Iron Range R.R. Co. awarded to AMERICAN BRIDGE CO., New York, N. Y., substructure to BARNET & RECORD CO., Minneapolis, Minn. New dock will replace Dock No. 2. Estimated cost, $1,635,000. Noted Oct. 21 and Nov. 18.

Mo., Kansas City—Memorial—Contract for memorial in Mt. Washington Cemetery for the W. R. Nelson Estate awarded to GEORGE A. FULLER CONSTRUCTION CO., 418 Dwight Bldg., Kansas City. Estimated cost, $125,000.

Tex., Arthur City—Revetment—Contract for revetment work on Red River above Arthur City for Risco R.R. awarded to J. W. McMURRAY CONTRACTING CO., Kansas City, Mo.

Calif., Huntington Beach—(Official)—Subway Work—Contract for reinforced-concrete pipe culverts, reinforced-concrete and timber subway and approaches under Southern Pacific tracks awarded to G. H. OSWALD, Los Angeles, at about $81,481. Noted Nov. 11.

Ont., Ft. William—(Official)—Coal Docks—Contract for addition to plant of Ft. William Coal Dock Co., Ltd., on Mission River awarded to ROBERTS & SCHAEFER CO., Chicago, Ill. Estimated cost, $300,000. C. B. Nineaber, Gen. Mgr. Noted Nov. 25.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Boston—(Fenway)—Plans being prepared for five-story, 40x150-ft. school and dormitory for Gordon Bible Institute, 7 Montgomery St., Boston. Estimated cost, $60,000. Kendall Taylor & Co., 93 Federal St., Boston, Arch.

Mass., North Adams—Board of Education has notified City Council that proposed new high school will cost $252,650 instead of $190,000 and has asked for an additional appropriation. Noted Nov. 11 and 25.

Mass., Quincy—City Council appropriated $220,000 for two school buildings. E. R. Stone, Mayor.

Mass., Salem—Plans prepared for addition to Bowditch School.

Mass., Springfield—Revised plans being prepared by F. M. Knowlton, Arch., 21 Merwin St., for six-story hotel for M. Rainville, 7 Myrtle St. Estimated cost, $100,000.

Mass., Stoneham—(Official)—Contract for fire and police station will be awarded in about two weeks. Estimated cost, $40,000. P. Varney, Arch. Noted Dec. 2.

R. I., Smithfield—Bids will be received until Jan. 17 for school. William R. Walker & Son, 17 Custom House St., Providence, Arch.

Conn., Bridgeport—Contract will soon be awarded for addition to Garfield School. Estimated cost, $45,000. H. S. Challenger, Chn. of Bldg. Com. Noted Dec. 2.

N. Y., Buffalo—Brown & Hoffman, Arch., 778 Genesee St., preparing plans for two-story addition to Columbus Turnverein to be used as a clubhouse. Estimated cost, $65,000. C. North, 1261 Genesee St., Secy.

N. Y., Fredonia—Citizens voted to issue $150,000 bonds for tuberculosis hospital.

N. Y., Jamestown—William J. Maddox is interested in the construction of an eight-story 100x160-ft. exposition building on the site of the old Fenton Homestead.

N. Y., New York—(Borough of Bronx)—(Official)—Contract will be awarded about Jan. 1 for two-story, 100x200-ft. theater at Webster Ave. and 195th St. for Max J. Kramer Co., 35 Nassau St. Estimated cost, $175,000. G. F. Pelham, 30 East 42nd St., Arch. Noted Nov. 18.

N. Y., New York—(Borough of Brooklyn)—Justices of Supreme Court plan to enlarge and remodel courthouse at Court and Jerolemon St. Estimated cost, $600,000. Frank H. Quinby, 99 Nassau St., New York, N. Y., Borough of Manhattan, Arch.

N. Y., New York—(Borough of Brooklyn)—Plans being considered by Department of Public Charities, New York, for addition to Kings County Hospital at New York Ave. and Clarkson St. Estimated cost, $75,000.

N. Y., New York—(Borough of Manhattan)—Plans will be prepared by Henry B. Herts, Arch., 345 Fifth Ave., for proposed Isaac L. Rice Memorial Hospital. Estimated cost, $1,000,000. Beth Israel Hospital, 70 Jefferson St., interested.

N. Y., New York—(Borough of Richmond)—John K. Burke and James Plunkett plan to build two-story brick theater at Bay and Wave St. Estimated cost, $70,000. H. R. Brewster, 116 Nassau St., New York, N. Y. (Borough of Manhattan), Arch.

N. Y., Peekskill—Westchester County Building Commission rejected all bids received for building county penitentiary. New bids will be received.

N. Y., Purchase—D. Barber, Arch., 101 Park Ave., New York, will prepare plans for meeting hall for A. W. Reed, Nassau and Cedar St., New York. Estimated cost, $700,000.

N. Y., Rochester—(Official)—Bids will be received until Dec. 15 for Chamber of Commerce Building at Mortimer and St. Paul St. Claude Braydon, Cutler Bldg., and Foster & Gade, Sibley Bldg., Rochester, Arch. Noted Nov. 25.

N. Y., Syracuse—Board of Education plans to build two-story, 160x270-ft. building to be known as Madison School. Estimated cost, $300,000. A. E. Larkin, Pres.

N. J., Atlantic City—Press reports state that new hotel will be built on site of Windsor Hotel. Jules E. Mastbaum, Philadelphia, Penn., interested.

N. J., Edgewater—Bonds for $40,000 sold for firehouse.

N. J., Paterson—Board of Education plans to enlarge and remodel School No. 7. Estimated cost, $60,000. J. F. Dunphy, City Hall, Clk.

N. J., Paterson—Plans being prepared for parochial school for Our Lady of Lourdes Church. Estimated cost, $50,000. B. P. Ketchell, 207 Market St., Newark, N. J.

N. J., Summit—Plans being considered by Public Service Corporation, 759 Broad St., Newark, for office building at Springfield Ave. and Beechwood St. Estimated cost, $75,000.

N. J., Trenton—School Commission plans to rebuild school which was recently destroyed by fire. Thomas D. Sensor, Pres.

Penn., Dickson City—Plans being prepared by Hancock & Koch, Arch., Coal Exchange Bldg., Scranton, for two-story school. Estimated cost, $50,000.

Penn., Harrisburg—Samuel Fishman, Market St., Harrisburg, plans to build a 60-room addition to the Lenox Hotel.

Penn., Johnstown—Press reports state that three-story municipal building will be constructed at Main and Market St. N. Miller, Supt. of Finance Dept.

Penn., Lehighton—Contract will soon be awarded for new high school. Estimated cost, $100,000. J. N. Hotchkiss, Secy. of Bd. of Education.

Penn., Monongahela—Board of Education will build two-story school. Estimated cost, $50,000. Charles J. Rieger, Germania Bank Bldg., Pittsburgh, Arch.

Penn., New Kensington—Plans will be prepared by Janssen & Abbott, Arch., Century Bldg., Pittsburgh, for two-story clubhouse for Aluminum Co. of America. Estimated cost, $100,000. Noted Dec. 2.

Penn., Philadelphia—Bids will be received about Jan. 1 by A. C. Shand, Ch. Engr., for four-story 60x68-ft. freight house for Pennsylvania R.R.. Estimated cost, $250,000.

Penn., Philadelphia—Board of Education will build addition to Harriet Beecher Stowe School at 70th St. and Woodland Ave. Estimated cost, $60,000. J. Horace Cook, Arch.

Penn., Philadelphia—Board of Education will build four-story school at B and Westmoreland St. Estimated cost, $350,000. J. Horace Cook, Arch.

Penn., Philadelphia—Election will be held Feb. 8 to vote on $6,000,000 bonds for municipal art gallery, general hospital and convention hall.

Penn., Philadelphia—Bids will be received by William Dix, Secy., Com. on Property of Bd. of Education, for 31-room school at B and Allegheny Ave. and nine-room addition to school at 70th and Woodland Ave.

Md., Baltimore—Plans being prepared by Lewis Levi, Munsey Bldg., Baltimore, for four-story office building on German St. for Immediate Benefit Life Insurance Co. Estimated cost, $70,000.

D. C., Washington—Preliminary plans prepared by Frank G. Pierson, Arch., Washington Loan and Trust Bldg., for one- and three-story convention hall for a company which is now being formed. W. E. Dentinger, Evans Bldg., promoter. Estimated cost, $400,000.

D. C., Washington—W. E. Dentinger plans to organize a company to construct a convention hall. Estimated cost, $400,000. G. Pierson, Washington Loan and Trust Co., Arch.

Va., Norfolk—Bellamy & Hough plans to build hotel at Ocean Park.

W. Va., Bluefield—An expenditure of $40,000 contemplated by Bluefield Lodge, B. P. O. E., for improving building.

W. Va., Spencer—Bids will be received until Dec. 22 by H. C. Ferguson, Secy. of Bd. of Education, for three-story high school. V. T. Ritter, Huntington, W. Va., Arch.

W. Va. Wheeling—Bonds for $85,000 voted for central school in Center Warwood by citizens of Richland District. J. E. Evans, Secy. of Bd. of Education. Noted Nov. 18.

N. C., Durham—Bids will be received until Jan. 11 by Commissioners of Durham County, for four-story courthouse and jail. Estimated cost between $180,000 and $250,000. Milburn, Heister & Co., Union Savings Bank Bldg., Washington, D. C., Arch. Noted July 29.

N. C., Gastonia—Bonds for $100,000 will be sold Dec. 14 for schools.

Fla., Seabreeze—Plans being prepared by Mark & Sheftall, Clark Bldg., Jacksonville, for three-story concrete school for Board of Public Instruction. Estimated cost between $40,000 and $50,000.

Ala., Birmingham—Plans prepared for school for Blessed Sacrament Church. Estimated cost, $50,000.

Ala., Mobile—Church will be constructed at Broad and Charleston St. by Greek Orthodox Society. L. G. Hiakapulos, interested.

Tenn., Bristol—(Official)—We have been informed that although bonds for $60,000 have been voted for high school bids for same will not be received for some months. Noted Oct. 28 and Dec. 2.

Tenn., Cleveland—Bids will be received until Dec. 14 by S. Y. Adcock, Supt. of High School Bd. of Bradley County, for high school. C. T. Jones, Hamilton National Bank Bldg., Chattanooga, Arch.

Tenn., Columbia—Congregation of First Presbyterian Church will rebuild structure recently destroyed by fire. Estimated cost, $50,000.

Tenn., Cookeville—State Board of Education, Nashville, will soon award contract for two buildings at State Normal and Polytechnic School. Estimated cost, $145,000. Noted Dec. 2.

Tenn., Cumberland Gap—Lincoln Memorial University is campaigning to raise $800,000 for three dormitories and equipment. George A. Hubbel, Pres.

Tenn., Lebanon—J. W. Hamilton is interested in a plan to organize a company to build a hotel, dancing pavilion and swimming pool on Hamilton property at Hampton Springs.

Tenn., Nashville—Bids will be received until Dec. 10 by V. Tolmie, Chn. of Bldg. Com., for Elliott School and negro high school. Estimated cost, $70,000, and $55,000 respectively. Noted Oct. 7 and Dec. 2.

Tenn., Nashville—(Official)—Bids will soon be received for remodeling building at Fourth Ave. and Union St. for bank and office building for Fourth and First National Bank. Estimated cost, $100,000. Noted Nov. 25.

Ky., Lexington—Eastern Kentucky State Hospital contemplates addition to hospital. Estimated cost, $90,000.

Ky., Louisville—Fraternal Order of Eagles will construct building at 812 South Second St. M. G. Mature, Chn. of Bldg. Com.

Ohio, Alliance—E. J. and R. I. Parthe, 240 East Main St., plan to build a two-story theater and store building. Estimated cost, $45,000. W. W. Matchett, 537 East Main St., Arch.

Ohio, Andover—Press reports state that a sanitarium will be built in Andover by Cincinnati, Youngstown and Andover capitalists. Estimated cost, $150,000.

Ohio, Athens—Trustees of Athens County Children's Home contemplate new home.

Ohio, Atwater—Plans being prepared by L. Thomas, Arch., 305 Pythian Temple, Cleveland, for school for Board of Education.

Ohio, Barberton—City contemplates election to vote on $67,500 bonds for city hall.

Ohio, Batavia—Bids will be received until Dec. 16 by Robertson & Fahnestock, Arch., Cincinnati, for public school.

Ohio, Cedar Point—Plans prepared by W. W. Hodges Co., Arch., 1216 Scofield Bldg., Cleveland, for three-story hotel for Cedar Point Amusement Co. G. A. Boecklin, Sandusky, Gen. Mgr.

Ohio, Cincinnati—(Official)—Date for receiving bids for Y. M. C. A. building postponed until about Feb. 1. Noted Oct. 7 and 21.

Ohio, Cincinnati—Browning-King Co. will build a four-stroy building on site of old St. Nicholas Hotel at Fourth and Race St. Estimated cost, $150,000.

Ohio, Cleveland—Contract will be awarded about Feb. 15 for two-story, 70x120-ft. church for Parkhill Baptist Church, 10600 Hathaway Ave. Estimated cost, $40,000. Fulton & Butler, Uniontown, Penn., Arch.

Ohio, Cleveland—Plans prepared for additions to Cleveland Chamber of Commerce Building in Public Sq. Estimated cost, $400,000.

Ohio, Columbus—Plans being prepared by D. Riebel & Sons, Arch., New First National Bank Bldg., for 11-story hotel for Broadway Co. Estimated cost, $400,000.

Ohio, Ironton—William Bay plans office and store building at Third and Center St. Estimated cost, $50,000.

Ohio, Lakewood—(Official)—We have been informed that New York, Chicago & St. Louis R.R. does not contemplate passenger station estimated to cost, $50,000, as stated in our issue of Dec. 2 M. H. Canniff, Pres.

Ohio, Niles—Bids will be received about Feb. 15 for six-story building for Dollar Savings Bank. Estimated cost, $200,000. C. F. Ownsley, Mahoning Bank Bldg., Youngstown, Arch. W. F. Stevens, Secy and Treas. Noted Oct. 14.

Ohio, Norwood—Bids will be received until Dec. 13 by Harold Ryland, Clk. of Bd. of Education, for purchase of $45,000 bonds for new school in Norwood View. Noted Nov. 11.

Ohio, Olmsted Falls—Plans being prepared by W. H. Nicklas, Arch., 1900 Euclid Ave., Cleveland, for school. Bids will be received about Jan. 1. Estimated cost, $60,000.

Ohio, Ravenna—Bids will be received about Jan. 1 for church and sunday school for congregation of First M. E. Church. Estimated cost, $50,000. W. T. Saltzman, 426 King St., Chn. of Bldg. Com.

Ohio, Ravenna—H. W. Riddle, East Main St., plans to build a three-story, 46x100-ft. theater. Estimated cost, $[illegible]. J. W. Greene, 246 Grant St., Arch.

Ohio, Willoughby—Plans will be prepared by Frank C. Warner, Arch., Hippodrome Bldg., Cleveland, and E. D. Litchfield, New York, N. Y., for new buildings for Andrews Institute. Estimated cost between $800,000 and $1,000,000.

Ind., Huntington—Bids will be received about Jan. 1 for two-story, 141x183-ft. high school for Board of Education Elmer E. Dunlap, 909 State Life Bldg., Indianapolis, Arch. Noted Dec. 2.

Ind., Indianapolis—Bids will soon be received by [illegible] A. Bohlen & Son, Arch., 1002 Majestic Bldg., for four-story bank and office building for Meyer & Kiser. S. Meyer, 137 East Washington St., Pres.

Ind., Peru—Plans will be prepared by Schriber-Beelman Co., Second National Bank Bldg., Toledo, Ohio, for two-story city hall. Estimated cost, $125,000. Noted Nov. 18.

Ind., Terre Haute—Board of Education will build two-story McLain Grade School. Estimated cost, $115,000. Herbert Foltz, 1456 Lemcke Annex, Indianapolis, Arch.

Mich., Detroit—Plans prepared by Smith, Hinchman & Grylls, Arch., for three-story building at 765-75 East Congress St. for Michigan State Telephone Co. Estimated cost, $60,000.

Mich., Grand Rapids—Y. W. C. A. plans to construct new building. Estimated cost, $100,000.

Ill., Chicago—Plans being prepared by Schmidt, Gardner & Martin, Arch., 104 South Michigan Ave., for three-story, 90x140-ft. building for Eleanor Club. Estimated cost, $125,000.

Ill., Tuscola—Board of Education plans to build high school. Estimated cost from $125,000 to $150,000.

Ill., Urbana—Press reports state that Cleveland, Cincinnati, Chicago and St. Louis Ry. will build passenger station at Urbana. Estimated cost, $45,000. C. A. Paquete, Cincinnati, Ohio, Ch. Engr.

Wis., Green Bay—Plans being prepared by Helmle & Helmle, Arch., 805 Fergus Bldg., Springfield, Ill., for addition to St. Vincent's Hospital. Estimated cost, $50,000.

Wis., Milwaukee—(Official)—Bids will be asked in about 60 days for three-story, 85x120-ft. School of Trades for Milwaukee Board of School Directors. Estimated cost, $160,000. Van Ryn & De Gelleke, Caswell Block, Arch. Noted Dec. 2.

Wis., Milwaukee—Preliminary plans being prepared for remodeling Empire Building at Grand Ave and West Water St. for Pabst Brewing Co. Estimated cost, $75,000. Henry Danisohefsky, Mgr.

Wis., Milwaukee—Plans being prepared by C. E. Malig, Arch., Dept. of Pub. Wks., for administration building for Isolation Hospital. Estimated cost, $40,000. F. G. Simmons, Comr. of Pub. Wks.

Wis., Taycheedah—Bids will be received next spring by State Board of Control for reformatory for women. Estimated cost, $200,000. M. J. Tappins, Secy., State Bd. of Control. Noted Sept. 23.

Iowa, Des Moines—Bids will be received about Jan. 1 for three-story brick building at Fourth and Grand Ave. for Willard Dixon, 1390 Pleasant St.

Iowa, Eldora—Citizens of Independent School District voted $93,000 bonds for school.

Iowa, Harlan—Bids will be received until 2:30 p.m., Jan. 5, by B. B. McPheeters, Secy. of Bd. of Education, for high and grade school buildings. J. D. Chubb, Arch., 109 North Dearborn St., Chicago, Ill.

Iowa, Sioux City—Commissioners of Woodbury County plan to build three-story, 150x150-ft. courthouse. Estimated cost, $50,000. Henry Metz, Chn. of Bd. of Superv.

Minn., Duluth—Northern Pacific Ry. plans to build new depot.

Minn., Duluth—Holstead & Sullivan, Arch., Palladio Bldg., preparing plans for two buildings at Superior St. and 21st Ave., W., for Stack Bros. Estimated cost, $70,000.

Minn., Duluth—Contract will be awarded in about six weeks for Morgan Park School. Estimated cost, $110,000. Kelly & Williams, Duluth, Arch.

Minn., Eveleth—Tentative plans prepared by W. T. Bray, Arch., Duluth, for high school. Estimated cost, $200,000.

Minn., St. Paul—Bids will be received until 10:30 a.m., Dec. 13, by A. Hohenstein, Pur. Agt., for building Carnegie Library, No. 1.

Kan., Ottawa—G. Washburn & Son, Arch., preparing plans for three-story addition to hotel for John Nelson.

Kan., Salina—Plans will be prepared by E. O. Brostrom, Arch., 300 Brent Bldg., Kansas City, Mo., for church for St. John's Lutheran congregation. Estimated cost, $40,000.

Kan., Topeka—Plans will be prepared for junior high and grade school. Estimated cost, $70,000.

Kan., Topeka—(Official)—R. Marks, Des Moines, Iowa, informs us that proposed department store building at Eighth and Kansas Ave. will not be constructed for about one year. Noted Nov. 25.

Neb., Omaha—Plans being prepared for two-story office building for Armour & Co., South Omaha. Bids will be received about Jan. 1. Estimated cost, $70,000.

Neb., Omaha—Bids will be received by J. S. Dales, Secy. Bd. of Regents of University of Nebraska, Sta. A, Lincoln, for hospital on grounds of College of Medicine, University of Nebraska. Estimated cost, $150,000. John Latenser & Sons, 626 Bee Bldg., Arch. Noted Dec. 2.

S. D., Mitchell—G. P. Botson will start campaign to raise funds for building State Methodist Hospital. Estimated cost, for first unit, $75,000.

Mo., Plattsburg—Bids will be received by E. McWilliams, Secy. of Bd. of Education, until 2 p.m., Dec. 15, for school. Owen & Payson, Arch., 731 Scarritt Bldg., Kansas City, Mo.

Mo., St. Louis—Plans prepared by Barnett, Haynes & Barnett, Arch., for two-story, 80x140-ft. parish school for Catholic Cathedral of St. Louis. Estimated cost, $100,000. Noted Oct. 21.

Mo., Springfield—Plans being prepared by O. L. Buttner, Arch., Holland Bldg., for building on South Jefferson St. for Y. W. C. A. Estimated cost, $75,000. H. Cooper, 297 East Water St., Chn. of Bldg. Com. Noted Nov. 25.

Ark., Little Rock—Morgan Smith, Dean of Medical Dept. of University of Arkansas, is interested in a plan to build a State General Hospital.

Ark., Little Rock—Plans being considered by Church of Nazarath, 14th and John St., for new building.

Tex., Abilene—Dormitory will be constructed at Simmons College. Estimated cost, $40,000.

Tex., Austin—Plans being prepared by Atlee B. Ayres, Bedell Bldg., San Antonio, for land office building and remodeling State Capitol for the state. Estimated cost, $300,000.

Tex., Beaumont—Bids will be received until Dec. 27 by Jefferson Hotel Co., c/o Cooke & Co., Theater Bldg., Houston, for nine-story hotel at Jefferson, Laurel and Alamo St. Estimated cost, $200,000.

Tex., College Station—Bids will be received until Dec. 22 by R. Adelspeyer, Arch., for hospital at State Agriculture and Mechanical College. Estimated cost, $50,000. Noted July 29 and Aug. 19.

Tex., Greenville—Wesley College will build administration building. Estimated cost, $50,000.

Tex., Harrisburg—Bonds for $50,000 voted by Harris County School District No. 20 for schools.

Tex., Houston—Bids will be received until 2 p.m., Dec. 13, by City Secretary for building administration building for Montrose School.

Tex., Houston—Bonds for $50,000 voted for schools in School District No. 20.

Tex., Kerrville—Mountain Park Sanitarium, recently organized with $124,000 capital stock, plans to build tuberculosis sanitarium near Kerrville. C. S. Fowler, San Antonio, interested.

Tex., Paris—Plans prepared for hotel on South Second St. Estimated cost, $45,000.

Tex., Pharr—Bond issue for $40,000 of Hidalgo County Common School District No. 4 for high school approved by Attorney General.

Tex., Wichita Falls—Plans being prepared by Field & Clarkson, Arch., for three-story building for A. F. & A. M. Estimated cost, $50,000.

Tex., Wichita Falls—Citizens voted $225,000 bonds for court house. Noted Nov. 11.

Okla., Durant—Citizens contemplate election to vote on $100,000 bonds for courthouse and jail for Bryant County.

Okla., Holdenville—Citizens voted $100,000 bonds for courthouse and jail. Noted Nov. 11.

Okla., Miami—Plans being prepared for county courthouse. Citizens recently voted $75,000 bonds for this purpose.

Okla., Okmulgee—Election will be held about Dec. 28 to vote on $150,000 bonds for county courthouse and jail.

Okla., Tulsa—Theater will be constructed by William Smith owner of Empress Theater. Estimated cost, $100,000.

Okla., Tulsa—Bids will be received until Dec. 20 by Board of Education for high school. Estimated cost, $300,000. H. O. McClure, Pres. Noted Dec. 2.

Utah, Salt Lake City—Salt Lake Terminal Co. will build station at South Temple and West Temple St. Estimated cost, $200,000.

Wash., Seattle—Plans will be prepared by Bebb & Gould, Arch., Denny Bldg., for school to be built on University Campus. Estimated cost, $150,000.

Ore., Portland—Woodmen of the World, Multnomah Camp No. 77 will erect building. Estimated cost, $65,000.

Ore., Portland—City will award contract for auditorium on Market Blk early next year. Estimated cost, $600,000. Philip H. Dater, City Engr. Noted Aug. 12 and Oct. 28.

Ore., Portland—Bids will soon be received for three-story, 83x100-ft. building at 20th and Washington St. for Labor Temple Association. Estimated cost, $105,000. Houghtaling & Dougan, 508 Henry Bldg., Arch. Noted Nov. 18.

Calif., Bakersfield—Election will be held Dec. 14 to vote on $75,000 bonds for two schools.

Calif., El Centro—Central Union High School District will award contract for high school in January. Estimated cost, $135,000. S. B. Zimmer, El Centro, Arch. Noted Oct 14.

Calif., Fresno—Bids will be received by H. E. Verble, Clk., Bd. of Trustees of Kingsburg Joint Union High School District, until 2 p.m., Dec 11, for high school.

Calif., Fresno—Bids will soon be received for edifice for Christian Science congregation. Estimated cost, $40,000. R. B. Hotchkin, Arch. Noted Aug. 12.

Calif., Riverside—Preliminary plans being prepared by Lester H. Hibbard, Arch., for citrus experiment station for University of California. Plans include director's residence, garage and shops. About $125,000 available for this purpose.

Calif., Sacramento—Revised plans being prepared by Shea & Lofquist, Arch., for William Land School on 17th., 18th., E., and F St. Estimated cost, $160,000. E. J. Carraghar, Pres. Bd. of Education.

Calif., San Leandro—Bonds for $125,000 voted for two new district schools.

Calif., Waco—Election will be held Dec. 11 to vote on $45,000 bonds for high school.

Bids In and Contracts Awarded

Mass., Boston—Contract awarded to G. A. FULLER CO. for pavilion on Charles St. for Massachusetts General Hospital. Noted Oct. 7.

Mass., Danvers—Trustees of Essex County Agricultural School awarded contract for school on Maple St. to LOUIS McALOON, North Andover, at $65,320. Noted Dec. 2.

N. Y., Buffalo—Contract for laboratory and experimental building for Pierce-Arrow Motor Car Co. at Elmwood Ave. and New York Central R.R. belt line awarded to ABERTHAW CONSTRUCTION CO., Boston, Mass. Estimated cost, $15,000.

N. Y., New York—(Borough of Bronx)—(Official)—Contract awarded to BUILDING VIOLATIONS CORPORATION, Woolworth Bldg., (Borough of Manhattan), for church at East 187th St. and Tiebout Ave., for East 187th St. United Presbyterian Congregation. Estimated cost, $40,000. Noted Sept. 30.

N. Y., New York—(Borough of Richmond)—(Official)—Contract for three-story, 75x150-ft. brick orphan asylum for Bethlehem Home awarded to C. SCHNEIDER & SON, 1251 DeKalb Ave., Brooklyn. Estimated cost, $100,000. Noted Oct. 14.

N. J., Atlantic City—(Official)—Contract for 12-story addition to St. Charles Hotel at St. Charles Pl. and Boardwalk for Newlin Haines Co., South New Jersey Ave. awarded to CRAMP & CO. Denckla Bldg., Philadelphia, Penn.

N. J., Princeton—Contract for club house for Quadrangle Club awarded to MATTHEWS CONSTRUCTION CO., Princeton. Estimated cost, $40,000.

Penn., Lebanon—Board of School Directors awarded contract for high school to BEARD CONSTRUCTION CO., Reading, at $151,333. Noted Oct. 7 and 14.

Penn., Scranton—Contract for building for First National Bank awarded to S. SYKES & SON, 218 Larch St., Scranton. Estimated cost, $190,000.

Penn., Wilkes-Barre—Contract for two-story school awarded to HERMAN MAILANDER, 169 Barney Ave., Wilkes-Barre. Estimated cost, $50,000.

S. C., Spartanburg—Contract for hotel at Morgan Sq. and King St. for Spartanburg Hotel Corporation awarded to LONGEST & TESSIER CO., Greensboro, N. C. Estimated cost, $150,000.

La., New Orleans—(Official)—Bids received Nov. 23 by Department of Public Finances for Isolation Hospital from J. A. Petty, $32,956; Lionel F. Favrot, $34,429; M. Chessi Co., $34,700. Noted Nov. 11.

Ohio, Canton—Contract awarded to INDIANA ENGINEERING AND CONSTRUCTION CO., Ft. Wayne, Ind., at $47,725 for Danlely-Worley School. Noted Nov. 11.

Ohio, Cleveland—General contract awarded to BOLTON PRATT CO. for club house for Bricklayers' Union. Estimated cost, $65,000. Noted Nov. 11.

Ohio, Cleveland—General contract awarded to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave., for building for J. H. Donahey and Elbert H. Baker, Plain Dealer Bldg., to be occupied by Hudson Stuyvesant Motor Car Co.

Ohio, Cleveland—General contract awarded to ROBINSON CONTRACTING CO., Wade Bldg., for four-story, 110x120-ft. college for Western Reserve University Dental School. Estimated cost, $75,000. Noted Nov. 11.

Ohio, Cleveland—Great Western Oil Co. awarded contracts for office building to PAUL BROS., Citizens Bldg., masonry work; YOUNGER & FARMER, carpentry work. Estimated cost, $49,000.

Ind., Bloomington—Contract for gymnasium for Indiana University awarded to A. E. KEMMER, Lafayette, at $157,200. Noted Aug. 19 and Oct. 21.

Ind., Ft. Wayne—INDIANA ENGINEERING AND CONSTRUCTION CO., Ft Wayne, awarded contract for three-story, 58x220-ft. building on Harrison St. for Ft. Wayne Land and Improvement Co.

Ill., Chicago—Pennsylvania R.R. awarded contract to FULLER CONSTRUCTION CO., New York, N. Y., for four-story, 400x800-ft. freight station. Estimated cost, $1,300,000. Noted Oct. 7.

Ill., Chicago—Bids received Dec. 1 by Board of Education for building Bell School from E. Reininga, carpentry at $27,772; A. E. Anderson, masonry at $51,490; South Halsted Street Iron Works, steel at $36,461.

Wis., Milwaukee—Alfred C. Clas, Arch., awarded contract for eight-story, 120x200-ft. hotel for Harvey Bros. to DAHLMAN CONSTRUCTION CO., 914 Majestic Bldg., Milwaukee. Estimated cost, $750,000.

Minn., Minneapolis—Contract for state historical building awarded to GEORGE J. GRANT CONSTRUCTION CO., St. Paul, at $397,000.

Minn., Northfield—(Official)—Contract for chemistry building at Northfield awarded to H. N. LEIGHTON CO., Minneapolis. Estimated cost, $50,000. Noted Nov. 25.

Kan., Wichita—Contract awarded to SWENSON CONSTRUCTION CO., 625 Finance Bldg., Kansas City, Mo., for administration building for Y. M. C. A. Estimated cost, $50,000. Noted Nov. 11.

Neb., Chadron—(Official)—General contract awarded to JOHN OHLSEN & SON, Loup City, Neb., for bank and office building for C. F. Coffee and B. F. Putman. Noted Nov. 18.

Tex., Austin—(Official)—Contract for three-story high-school awarded to VAN HORN SHAW CONSTRUCTION CO., Ft. Worth, Tex., at $100,790. Noted Nov. 18.

Tex., Houston—Reinhart & Donovan, Oklahoma, at $56,000, submitted lowest bid for Taylor School. Noted Nov. 4.

Idaho, Boise—Walsh Bros. & Hannan, Girdley, Calif., at $41,874, submitted lowest bid for addition to public building.

Colo., Greeley—Lowest bid received on general contract for courthouse was that of Seerle & Varnum, at $95,400.

Ore., Echo—Contract for city hall awarded to C. H. KRANTZ, Portland, at $40,065.

Calif., Los Angeles—Contract awarded to F. O. ENGSTRUM CO., Fifth and Seator St., Los Angeles, for bank building on Spring St. for Security National Bank.

Benjamin B. Lawrence, Class of 1878 Columbia School of Mines, New York, N. Y., has purchased the Pelton-Doble waterwheel and Pelton-Francis turbine exhibits of the Pelton Water Wheel Co., San Francisco, at the exposition, and has presented the same to the above school.

John Pierce & Co., 901 West St., New York, N. Y., granite contractors, has filed a petition in bankruptcy.

The Aberthaw Construction Co. announces the removal of its offices to more commodious quarters in the newly erected Niles building, at 27 School St., Boston, Mass. Here this company will be still better equipped for handling the construction of industrial plants, dams, and similar structures.

The Burdett Oxygen Co. will complete the erection of its Ft. Worth, Tex., plant, at 23rd and Jones St., on Dec. 15, 1915. The plant is designed to supply the Texas trade with Electrolytic Oxygen 99½% pure. The Texas plant is the ninth plant erected by the Burdett Co. in the various industrial centers of the country.

E. W. Van C. Lucas, Consulting Engineer, has moved his office from the Municipal Bldg. to 111 Broadway, New York, N. Y.

Subway—The Public Service Commission on Dec. 7 awarded the contract for the installation of tracks on the White Plains extension of the Lenox Ave. branch of the existing subway to the COAST AND LAKE CONTRACTING CORPORATION, at $53,930.50. On the ground that a mistake had been made in its estimate, the corporation requested the permission of the Public Service Commission to withdraw its bid, but the latter refused. It allowed that the bidder was responsible for the error and that the usual method would be followed by awarding the contract to the lowest bidder. It is evident that the city will benefit by the award when it is noted that the next lowest bid, that of the South Eastern Construction and Engineering Corporation, was $101,205.86.

The Russian Society for Electrical Enterprises, Ltd., of Petrograd, which is concessionary of electric lighting stations in Pawlowsk, Uman, Kamenetz-Podolsk, and of tramways in Elizabethgrad and Uman has opened a branch where it is willing to entertain propositions from manufacturers in the United States on electrical machines and apparatus, insulating materials, steam and naphtha engines and water turbines, and desire to enter into relations with first-class factories in this country for Russia.

The Buffalo Foundry and Machine Co., Buffalo, N. Y., has opened an office at 1432 Whitehall Bldg., 17 Battery Pl., New York, N. Y., to take care of business in this section of the country.

Exports for the Week—Following is a statement of exports (exclusive of specie) from the port of New York, as reported by the Custom House, for the week ended December 4, with comparisons with the previous year:

	1915	1914
Exports for the week	$63,713,174	$20,061,744
Previously reported	1,601,327,622	786,351,600
Total since Jan. 1	$1,665,040,796	$806,413,344

To—	Value	To—	Value
Argentine Republic	$1,603,579	Mexico	200,455
Brazil	1,250,320	Norway	1,359,419
Bolivia	52,049	Netherlands	2,246,235
Belgium	937,132	Netherlands Poss.	135,839
British Possessions	2,994,681	Portugal	406,368
China	75	Peru	199,178
Cuba	1,987,118	Panama	509,040
Central America	164,807	Philippines	536,265
Chili	100,857	Paraguay	1,295
Colombia	249,498	Russia	5,620,036
Denmark	703,692	Russian Possessions	642,290
Danish Possessions	19,157	Scotland	436,611
England	19,721,403	Sweden	358,652
Ecuador	77,578	Spain	292,410
Egypt	242,188	Spanish Possessions	1,014
France	16,391,477	Siam	11,918
French Possessions	94,482	Santo Domingo	203,370
Germany	224,227	Switzerland	68,772
Greece	405,849	Turkey	748
Hayti	2,944	Uruguay	284,630
Ireland	553,233	Venezuela	228,774
Italy	2,105,734		
Kongo	745	Total	$63,713,174

RAILWAY, SAN FRANCISCO, CALIF.

Hetch Hetchy Project

Bids were received by the Board of Public Works, Nov. 26, for constructing a railway from Roasasco to the Hetch Hetchy Reservoir, about 67 miles, from (A) Porter Bros. Co., San Francisco; (B) F. ROLANDI, San Francisco (awarded contract); (C) MacArthur Bros. Co., and Mason & Hanger, San Francisco; (D) Tibbitts-Pacific Co., San Francisco; (E) Utah Construction Co., San Francisco; (F) Twohy Bros. Co., San Francisco. The item bids were as follows:

	A	B	C	D	E	F
161,673 cu.yd. grading, proposition No. 1, granite	$1.17	$1.05	$1.23	.....	$1.30	$1.36
376,540 cu.yd. grading, proposition No. 1, solid rock	1.07	.94	.80	.....	1.20	1.36
97,801 cu.yd., proposition No. 1, soft rock	.69	.70	.45	.....	.70	.75
372,735 cu.yd., proposition No. 1, earth	.38	.37	.30	.....	.33	.36
1,008,749 cu.yd. grading, proposition No. 2, alternate to proposition No. 1, all materials	.7943	.67	.62	.83	.93	1.04
811 lin.ft. Culverts, 12-in. corrugated iron	1.25	.98	1.20	1.50	1.505	1.30
811 lin.ft. culverts, 12-in. corrugated steel	1.25	.90	1.15	1.45	1.445	1.23
4,454 lin.ft. culverts, 24-in. corrugated iron	2.25	1.90	1.80	2.55	2.78	2.30
4,454 lin.ft. culverts, 24-in. corrugated steel	2.25	1.75	1.70	2.40	2.66	2.20
527 lin.ft. culverts, 30-in. corrugated iron	3.00	2.70	2.80	3.50	3.765	3.20
527 lin.ft. culverts, 30-in. corrugated steel	3.00	2.50	2.65	3.30	3.585	3.10
944 lin.ft. culverts, 36-in. corrugated iron	3.75	3.30	3.25	4.20	4.615	3.80
944 lin.ft. culverts, 36-in. corrugated steel	3.75	3.15	3.10	3.90	4.395	3.70
30 miles fencing, common	425.00	600.00	475.00	812.00	500.00	420.00
10 miles fencing, hog-tight	425.00	670.00	570.00	750.00	625.00	500.00
1 mile ballast, section 1, broken stone	2,700.00	2,122.80	2,535.00	3,360.00	3,000.00	2,000.00
1 mile ballast, section 1, gravel	2,250.00	1,592.10	1,335.00	1,690.00	2,250.00	2,400.00
7.4 miles ballast, section 1, selected	1,350.00	707.60	1,235.00	1,045.00	1,720.00	1,900.00
1 mile ballast, section 2, broken stone	2,700.00	1,592.10	2,535.00	3,040.00	3,000.00	2,000.00
1 mile ballast, section 2, gravel	2,250.00	1,405.20	1,310.00	1,525.00	2,250.00	2,300.00
13.7 miles ballast, section 2, selected	1,350.00	1,061.40	1,135.00	895.00	1,720.00	1,900.00
1 mile ballast, sectional, broken stone	2,700.00	1,592.10	2,535.00	2,540.00	3,000.00	2,000.00
1 mile ballast, section 3, gravel	2,250.00	1,326.75	1,285.00	1,400.00	2,250.00	2,000.00
15.2 miles ballast, section 3, selected	1,350.00	1,061.40	1,085.00	895.00	1,720.00	2,000.00
1 mile ballast, section 4, broken stone	2,700.00	1,592.10	2,535.00	2,760.00	3,000.00	2,000.00
1 mile ballast, section 4, gravel	2,250.00	1,405.20	1,285.00	1,580.00	2,250.00	2,300.00
11.7 miles ballast, section 4, selected	1,350.00	1,061.40	1,085.00	875.00	1,720.00	2,000.00
1 mile ballast, section 5, broken stone	2,700.00	2,034.35	2,535.00	2,540.00	3,000.00	2,000.00
1 mile ballast, section 5, gravel	2,250.00	1,503.65	1,285.00	1,350.00	2,250.00	2,000.00
11 miles ballast, section 5, selected	1,350.00	884.50	1,085.00	975.00	1,720.00	2,000.00
69 miles track construction	9,750.00	3,450.00	9,485.00	11,480.00	8,726.88	9,100.00
30 sets switches, frogs and switch stands	175.00	140.00	190.00	200.00	224.24	225.00
20,000 lin.ft. guard rails	1.00	.62	.50	.11	.50	.60
2,400 lb. iron point castings for guard rails	.07	.065	.09	.08	.0375	.06
25,000 rail braces	.30	.33	.32	.44	.27	.21
10,000 anti-creepers	.25	.21	.27	.27	.22	.21
10 derails	30.00	15.00	14.00	32.00	10.00	20.00
100 cattle guards	25.00	15.00	14.00	25.00	29.90	20.00
8 redwood water tanks	550.00	400.00	365.00	670.00	377.05	420.00
60,000 pounds steel oil tanks (2)	.08	.04	.08	.086	.072	.06
1 set equipment for oil tank, with gasoline engine	850.00	995.00	550.00	1,200.00	785.68	1,800.00
1 set equipment for oil tank, with steam pump	1,700.00	1,282.00	560.00	2,200.00	1,432.42	2,300.00
040070 lb. Tuolumne River bridge (2 alternatives), proposition No. 1: mSteel truss bridge, solid riveted	.052	.055	.06	.069	.05962	.0625
470,000 lb. Tuolumne River bridge (2 alternatives), proposition No. 2: Steel truss bridge, pin connected	.052	.053	.055	.067	.05786	.0575
130,00 lb. (2 alternatives) steel plate girder approaches	.052	.052	.055	.06	.05005	.055
450 M ft. b.m. trestles, lumber, erected	40.00	40.00	43.00	63.00	40.00	70.00
25,000 lb. iron in trestles	.06	.05	.05	.063	.04	.06
2,500 cu.yd. masonry, concrete	14.00	12.00	8.50	14.50	12.00	11.00
1,000 sq.yd. rubble in cement mortar	3.50	3.00	3.50	4.00	5.00	8.00
2,000 sq.yd. rubble, dry, hand laid	2.50	2.00	2.50	2.00	2.00	6.00
1,000 sq.yd. rip-rap	1.50	1.75	.65	1.00	1.00	6.00
50 miles telephone line, complete	700.00	575.00	415.00	540.00	500.00	340.00
9 miles on poles already set	250.00	380.00	245.00	112.00	114.33	100.00
10 sets station instruments, installed	25.00	16.00	25.00	50.00	16.17	20.00
Extended totals	$1,932,668	$1,800,925	$1,955,062	$1,555,376	$1,543,080	$1,810,807

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—Movement is being agitated to construct electric railway from Oneonta to Davenport, through South Worcester and Charlotteville to Summit.

Virginia—Chesapeake & Ohio Railway contemplates an expenditure of $160,000 for new terminal trackage at Newport News. F. I. Cabell, Richmond, Cr. Engr.

West Virginia—Spur will be constructed from Cross Creek Tunnel north to Wellsburg to Follansbee, about three miles, by Wabash R.R. A. O. Cunningham, St. Louis, Mo., Ch. Engr.

West Virginia—Surveys being made by Kanawha, Glen Jean & Eastern R.R. for extension from Tamroy south to Beckley, 8.05 miles. V. Veazey, Mt. Hope, Ch. Engr.

North Carolina—Southern Power Co. plans to build electric railway from Greensboro to Reidsville and Spray, 30 miles. W. S. Lee, Charlotte, Vice-Pres. and Ch. Engr.

Georgia—Savannah & Southern Railway contemplates extension from Willie southwest to Glennville, about 16 miles. W. G. Tuten, Letford, Ga., Gen. Mgr.

Florida—Jacob Brown and J. H. Taylor interested in construction of railway from Ocala to Silver Springs, Fla., about five miles.

Alabama—Press reports state that Alabama, Tennessee & Northern Railway has been purchased by Illinois Central R.R. which plans to extend line to Tuscaloosa, 30 miles. A. S. Baldwin, Chicago, Ill., Ch. Engr., Illinois Central R.R.

Alabama—Surveys made by Gulf, Florida & Alabama Railway for extension from Kimbrough north to Jasper, Ala., 158 miles. G. A. Berry, Pensacola, Ch. Engr.

Louisiana—Louisiana & Arkansas Railway plans to build an extension from Wildsville Junction to Vidalia, La., about 22.59 miles. William Buchanan, Texarkana, Ark., Pres.

Tennessee—Carolina, Greenville & Northern Railway has sold bonds for proposed railway between Bristol and Knoxville, via Kingsport, Newport and Sevierville, about 140 miles. F. A. H. Kelley, Greenville, Tenn., Ch. Engr. Noted Oct. 14.

Tennessee—Surveys being made by Nashville, Chattanooga & St. Louis Railway for spur to Sylvan Mills, about two miles. H. McDonald, Nashville, Ch. Engr. Noted Sept. 23.

Ohio—Cleveland, Alliance & Mahoning Valley R.R., Cleveland, contemplates a double-track line from Warren to Youngstown, via Niles.

Indiana—Gary, Hobart & Eastern Traction Co., Hobart, contemplates construction of 12 miles of track between Hobart and Valparaiso next year. B. J. Schramm, Hobart, Gen. Supt. and Pur. Agt.

Michigan—United Railway Co., Detroit, plans to extend South Dearborn line from River Rouge to Ecorse. F. W. Brooks, Detroit, Gen. Mgr.

Wisconsin—Green Bay & Eastern R.R. incorporated to build an interurban railway from Green Bay to Sheboygan, via Manitowac, about 70 miles. Charles Frazier, Manitowac, interested. Noted Nov. 11.

Iowa—Citizens of Des Moines voted to grant 25-year franchise to Des Moines City Railway Co. Under terms of franchise company will be obliged to expend $1,500,000 for improvements during next three years, including eight mile extension. L. L. Sloss, Des Moines, Pres.

Iowa—Ft. Dodge, Des Moines & Southern R.R., Boone, plans to build railway from Swanwood Junction to Des Moines, about six miles, next year.

Minnesota—Surveys being made for railway from Port Arthur to Duluth, Minn., to be known as Great Northern, Minnesota & Duluth R.R.

Minnesota—St. Paul Southern Electric Railway, St. Paul, plans to build a railway from Hastings to Rochester, 64 miles, during 1916. H. A. Genung, 1615 Pioneer Bldg., St. Paul, Ch. Engr.

South Dakota—South Dakota & Western Railway Co. secured right-of-way for railway from Mitchell to Brule, via Platte. W. L. Bruce, interested. Noted Oct. 21.

Missouri—Kansas City, Lawrence & Tokepa R.R. Co., Kansas City, plans to build about 52 miles of track between Zarah and Topeka next year. F. P. Dickson, Kansas City, Pres. and Pur. Agt.

Arkansas—Cache Valley R.R. plans to build line from Thebes, Ill., to Little Rock, Ark., 246 miles. G. W. L. Brown, Sedgwick, Ark., Asst. Pres., Secy. and Gen. Mgr.

Arkansas—Surveys made by Ft. Smith, Subiaco & Eastern R.R. for line from Scranton to Dardanelle, Ark., 23 miles. Henry Stroup, Paris, Pres. and Gen. Mgr.

Texas—Chicago, Weatherford & Gulf Railway Co., recently incorporated with $250,000 capital stock, plans to construct a railway from Gainesville via Weatherford to Waco, Tex., about 150 miles. L. Decker, Middletown, N. Y., Vice-Pres. and Gen. Mgr.

Texas—Preliminary surveys made by Houston & San Antonio Interurban Electric Railway Co. for proposed railway via Seguin, Zeul, Gonzales Schulenberg and Eagle Lake, about 200 miles. E. Kennedy, Houston, Pres.

Texas—Surveys being made by Lutcher & Moore Lumber Co. for extension of its Gulf, Sabine & Red River R.R., about 35 miles.

Oklahoma—Surveys made for railway from Clinton to Chickasha for Clinton, Oklahoma & Western Railway, also for extension to Oklahoma and from Clinton to Tuttle, via Union City. G. V. McClure, Oklahoma, Ch. Engr. Noted Aug. 26.

Oklahoma—Ft. Smith, Poteau & Western Railway plans to build extension south from Poteau, 10 miles. J. E. Finney, Gen. Mgr.

Oklahoma—Santa Fé System contemplates spur from Sumpter to oil field, northeast of Blackwell, Kay County. C. F. W. Felt, Chicago, Ill., Ch. Engr., Atchison, Topeka & Santa Fé System.

Colorado—Denver & Rio Grande R.R. plans to broad gage 235 miles of its line in Colorado and New Mexico. J. G. Gwyn, Denver, Ch. Engr.

Idaho—Lewiston, Nezperce & Eastern R.R., Lewiston, plans to issue bonds to construct railway to Waha, Idaho. J. P. Vollmer, Lewiston, Vice-Pres.

Idaho—Business men of Pocatello plan to organize Pocatello Transportation and Interurban Co. to construct a railway about seven miles long.

Arizona—Phœnix Railway Co., of Arizona plans to double track its line on West Washington St. to the Capitol. Samuel H. Mitchell, Gen. Mgr.

Oregon—Southern Oregon Traction Co., Medford, plans to extend its line to Ruch and Blue Ledge copper mine, about 30 miles. C. E. Bullis, Medford, Gen. Mgr.

California—City Council granted franchise to Oakland, Antioch & Eastern Railway to build double-track line on M. St. extending westerly to Sacramento River, easterly along M St. to Third St., along Third St. to I St. H. A. Mitchell, San Francisco, Secy. and Gen. Mgr.

California—Western Pacific Railway plans an expenditure of $20,000,000 for new line when same is taken from the hands of receiver. T. J. Wyche, Ch. Engr.

Ontario—Pere Marquette R.R., Detroit, plans to double-track its line between Blenheim and Wilkie, Ont. A. L. Grandy, Detroit, Ch. Engr.

Ontario—Toronto, Hamilton & Buffalo Railway Co., Hamilton, plans to build a railway between Dunville and Port Maitland. H. L. Latham, Hamilton, Ont., Ch. Engr.

Alberta, Edmonton—See item under "Light, Heat and Power."

Bids In and Contracts Awarded

Oklahoma—Henryetta, Oklahoma & Western Railway Co. awarded contract for grading line from Henryetta to Kusa, Dewar and other towns to ALLY BROS. W. T. Croslen, Oklahoma, Pres. Noted Nov. 18 and Dec. 9.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Lindehurst—See item under "Water-Works."

N. Y., New York—(Borough of Manhattan—(Official)—Bids will be received by John A. Kingsbury, Comr., Dept. of Pub. Charities, Municipal Bldg., until 10:30 a.m., Dec. 20, for new steam supply and return lines between power house and main building of City Hospital District, Blackwell's Island.

N. Y., Sanborn—Plans being considered for electric-light plant.

N. Y., Scriba—Public Service Commission, Oswego, granted franchise to Peoples Gas and Electric Co., Oswego, to install and operate electric distribution system in Scriba.

N. Y., Syracuse—Syracuse Lighting Co. granted franchise by Public Service Commission, Syracuse, for transmission line between Syracuse and Geddes.

N. J., Trenton—New Jersey State Hospital will build addition to its powerhouse.

Penn., Ellwood City—Mahoning & Shenango Valley Electric Co. plans to build transmission line from New Castle to station of Pennsylvania Power Co. in Ellwood City.

Penn., Meadville—City plans to enlarge and improve electric-light plant. Estimated cost, $10,000.

Penn., Norristown—(Official)—Bids will be received by Trustees of State Hospital for Insane of Southeastern District of Pennsylvania until Dec. 30 for center crank automatic engine, alternating current dynamo, switchboard and ventilating fans. W. W. Hibbert, 415 Hale Bldg., Philadelphia, Consult. Engr. (See adv.)

Penn., West Reading—Reading Transit Co. plans to improve its power plant at West Reading. Estimated cost, $300,000.

Md., Baltimore—Press reports state that Columbia Gas and Electric Co., New York, N. Y., will build natural gas pipe line from West Virginia fields to Baltimore. Estimated cost, $10,000,000. A. B. Leach, 149 Broadway, New York, N. Y., Pres.

W. Va., Wellsburg—Company will be organized by American Gas and Electric Co., 30 Church St., New York, N. Y., to build electric-light plant on Ohio River and Pennsylvania R.R. near Wellsburg. Estimated cost, $2,500,000. Sargeant & Lundy, Chicago, Ill., Consult. Engr.

La., Crowley—See item under water works.

Ky., Georgetown—See item under "Water Works."

Ky., Mt. Olive—A. Chandler interested in construction of electric-light plant in Mt. Olivet.

Ohio, Belpre—Proposition to grant franchise to install and operate electric-light plant and water system in Belpre under consideration by Village Council.

Ohio, Norwood—Ault & Wiborg Co., Cincinnati, plan to build boiler and power house addition to its plant in Norwood.

Ohio, Steubenville—American Gas and Fuel Co. plans to build power plant at Beach Bottom near Steubenville. Estimated cost, $2,500,000.

Ind., Miller—City has applied to Public Service Commission for permission to issue $12,500 bonds for electric-light plant.

Ill., Oakwood—City contemplates municipal electric-light plant.

Wis., Waupaca—City and O. G. Nelson Lumber Co. will build power dam across Waupaca River.

Iowa, Fairbanks—Citizens voted $6,000 bonds for electric-lighting system. Noted Oct. 21.

Iowa, Thornton—Thornton Light and Power Co., recently incorporated, will build electric-light and power plant. H. O. Cace, Pres.

Minn., Brown Valley—Ottertail Power Co., Fergus Falls, has purchased local electric-light plant for $13,500. Company will build transmission line to Brown Valley and also extend lines to Beardsley, Peever and Siseton.

Minn., Plummer—(Official)—Bonds for municipal electric-light plant will be sold Dec. 27. Noted Nov. 25.

Kan., Altoona—Plans being considered for electric-light plant in Altoona. Frank Adams of Overleese & Askins, Bartlesville, Okla., interested.

Kan., Coffeyville—(Official)—Election will be held Dec. 28 to vote on $20,000 bonds for municipal electric-light plant. H. H. Deichler, City Clk. Noted Dec. 2.

Kan., Dodge City—Midland Water, Light and Ice Co. plans to extend transmission lines to Bucklin and Ford, about 30 miles.

Kan., Riley—R. B. Fegan, Junction City, applied to City Council for franchise to install and operate electric-light plant in Riley.

Neb., Dawson—Installation of electric-light plant in Dawson under consideration.

Neb., Ruskin—Citizens voted $6,000 bonds for electric-lighting system.

S. D., Revill—Plans being prepared for electric-light plant in Revill.

N. D., Plaza—Construction of electric-light plant in Plaza under consideration.

Mo., Pleasant Hill—Pleasant Hill Light and Power Co. plans to build transmission line from Pleasant Hill to Strasburg.

Ark., Hartford—City plans to install electric-light plant.

Tex., Gainesville—Texas Power and Light Co. plans to install new equipment in its plant next year.

Tex., McKinney—Citizens voted to sell municipal electric-light plant to Texas Light and Power Co. who will improve same. Estimated cost, $100,000.

Tex., Portland—Citizens plan to incorporate town and issue bonds for electric-light plant.

Okla., Ardmore—City contemplates $150,000. bond issue for gas pipe line. J. H. Corlock, City Engr.

Okla., Oklahoma—Plans being considered by Oklahoma Gas and Electric Co. for extending service mains to territory surrounding city.

Ariz., Globe—Arizona Commercial Co. plans to build power plant. Estimated cost, $50,000.

Wash., Prescott—Pacific Power and Light Co., Walla Walla, applied to County Commissioners for permit to build transmission line from Prescott to Waitesburg.

Wash., Prosser—City contemplates election to vote on bonds for municipal electric-light and power plant.

Calif., Loyalton—Election will be held Dec. 27 to vote on $5,000 bonds for municipal electric-light plant. Noted Nov. 11.

Calif., San Pedro—Permit granted F. O. Engstrum Co., Fifth and Seaton St., Los Angeles, for power house for American Trona Co., Pacific Electric Bldg.

Que., Hull—City plans expenditure of $20,000 for extending electric-lighting system. H. Boulay, Clk.

Ont., Kamoka—Town will build hydro-electric power and distribution system. Estimated cost, $10,000. E. R. Barclay, Clk.

Ont., Watford—Plans being prepared for hydro-electric power and distribution plant. Estimated cost, $14,000. W. S. Fuller, Watford, interested.

Alta., Edmonton—Press reports state that G. W. Farrell & Co., St. Francis Xavier St., Edmonton, plans to build power plant and electric railway. Estimated cost, $6,000,000.

Bids In and Contracts Awarded

N. Y., Cape Vincent—LEONARD J. GATES, Cape Vincent, awarded contract for transformer station for Northern Utilities Co., Inc., Watertown.

N. J., Elizabeth—(Official)—Contract for two-story, 100x241-ft. gas accumulator building for American Gas Co. awarded to UNITED FIREPROOFING CO., 8 West 40th St., New York, N. Y. Estimated cost, $60,000.

Ind., Terre Haute—Indiana Gas and Coke Co. awarded contract for gas coke plant to GAS MANUFACTURING CO., Cleveland. Estimated cost, $750,000.

Minn., St. Paul—(Official)—Contract for installing heating and lighting systems in Minnesota Historical Society Building awarded to GEORGE M. McGEARY & SON, St. Paul, at $40,324; and ELECTRIC CONTRACTING CO., St. Paul, at $11,000. See item under "Buildings."

Calif., Keeler—Contract for seven mile transmission line from Keeler to Cerro Gordo mines for Southern Sierras Power Co., Riverside, awarded to M. A. STAMPHER CO., 1821 South Hoover St., Los Angeles.

BRIDGES

Proposed Work

N. Y., Perry—Town Board contemplates rebuilding of Borden Ave. bridge. Estimated cost, $6,000.

N. J., Newark—Report of Bridge Committee recommending an appropriation for preliminary survey of new bridges over Newark Bay between Elizabeth and Bayonne [illegible] by Board of Freeholders of Union County. Noted Dec. 2.

Penn., Johnstown—City, County and Johnstown Traction Co. contemplate concrete bridge. Estimated cost, $75,000. J. W. Cramer, City Clk.

Penn., New Castle—Plans will be prepared by T. A. Gilkey, Engr., for new bridge to replace South Mill St. bridge.

Penn., Pittsburgh—City contemplates concrete or steel bridge across Greenfield Ave. Estimated cost of former, $100,000; latter, $65,000. George S. Webster, City Engr.

N. C., Bryson City—Bids will be received until Dec. 20 by Swain County Highway Commission for four 40-ft. span and one 300-ft. concrete bridges. T. M. Howerton, Bryson City, Engr.

Tenn., Bristol—Southern Ry. plans to build bridge across railway tracks at English St. Estimated cost, $7,000. B. Herman, Washington, D. C., Ch. Engr.

Ohio, Bridgeport—Bids will soon be received for repairing bridges at an estimated cost of $7,000.

Ind., Jeffersonville—Pennsylvania R.R. will build double-track bridge across Ohio River between Jeffersonville and Louisville, Ky. Estimated cost, $2,500,000.

Kan., Lawrence—Date for receiving bids for bridge on county line between Douglas and Franklin Counties extended from Nov. 6 to Jan. 3. Noted Oct. 28.

Neb., York—Bids will be received until noon, Jan. 11, by the Commissioners of York County for steel and concrete bridges for 1916. A. H. Beck, County Clk.

Mo., Valley Park—W. A. Koons is interested in proposition to bond city for $150,000 for constructing bridge and culverts in St. Louis County.

Tex., Marshall—Citizens voted $50,000 bonds for viaduct over tracks of Texas & Pacific Railway. Noted Nov. 4 and 11.

Okla., Purcell—Election to vote on $100,000 for bridge work in McClain County has been postponed indefinitely. Noted Dec. 2 and 9.

Calif., Sacramento—Bids will be received by State Highway Commission, 515 Forum Bldg., Los Angeles, until 2 p.m., Dec. 27, for bridge across Petaluma Creek at Green Point.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received Dec. 9 for constructing Unionport bridge over Westchester Creek were as follows: Rodgers & Hagerty, Inc., $195,511; William J. Rodgers, $199,399; H. D. Robinson, $208,103. Noted Nov. 25.

Penn., Harrisburg—(Official)—Contract for bridge across Four Mile Creek, Harborcreek Township, Erie County, awarded to LININGER & BENNETT, Conneaut Lake, Ohio, at $3,994. Robert J. Cunningham, State Highway Comr. Noted Dec. 2.

Penn., Philadelphia—Bids were received Dec. 8 by Department of Public Works for (a) Annsbury St. and North Pennsylvania R.R. bridge, (b) Orthodox St. bridge, as follows: (a) Donato Delise, Philadelphia, $41,410; Peoples Bros., Philadelphia, $43,999; T. F. Reilly, Philadelphia, $46,000; (b) Richard Walsh & Sons, Inc., Philadelphia, $23,750; Donato Delise, Philadelphia, $24,600; J. D. Domey, Philadelphia, $24,990. George S. Webster, City Engr. Noted Dec. 2.

Va., Hanover—(Official)—All bids received Nov. 24 for reinforced-concrete bridge over Little River, Hanover County, rejected. Noted Nov. 18.

Miss., Leakesville—(Official)—Contract for bridge across Chickasawhay River awarded to VINCENNES BRIDGE CO., Vincennes, Ind., at $8,289. Noted Oct. 21 and Nov. 18.

Tenn., Jackson—Contract for three highway bridges awarded to NASHVILLE BRIDGE CO., Nashville, at $8,850.

Ohio, Warren—(Official)—Contract for superstructure of South Main St. bridge awarded to OREGONIA BRIDGE CO., Lebanon, at $8,200. Noted Dec. 2.

Ind., Wabash—(Official)—Contract for Huntington St. bridge awarded to JANSE BROS., BOOMER, HUGHES & CRAIN CONSTRUCTION CO., Detroit, Mich., at $42,498. A. W. Grovenor, Ft. Wayne, Engr. Noted Dec. 2.

Mich., Detroit—(Official)—Contract for wrecking burned Belle Isle Bridge awarded to CANDLER DOCK AND DREDGE CO., 305 Moffat Bldg., Detroit, at $4,250, plus approximately 800 tons of salvaged wrought iron. R. H. Hidey, Engr.

Ill., Chicago—(Official)—Lowest bids received Dec. 2 by Sanitary District of Chicago for superstructures of Calumet Sag bridges were as follows: Milwaukee Bridge Co., Milwaukee, Wis., North Rd. bridge, $5,970; Paper Rd. bridge, $11,033; 48th Ave. bridge, $4,073; Homan Ave. bridge, $10,556; Kedzie Ave. bridge, $3,158; Francisco Ave. bridge, $3,158; Chicago Bridge and Iron Co., Chicago, Ill., Archer Rd. bridge, $3,900; Western Ave., bridge, $6,900; Division St. bridge, $3,300; Ann St. bridge, $3,450; Chicago St. bridge, $3,450. Noted Nov. 18.

Kan., Wathena—Contract for reinforced-concrete bridge across Peters Creek awarded to J. H. WAGENKNECHT, Wathena, at $5,477. Noted Nov. 4.

Ark., Osceola—Contract for eight bridges awarded to MIDLAND BRIDGE CO., Kansas City, Mo., at $7,869; draw bridge across Little River to VINCENNES BRIDGE CO., Vincennes Ind., at $5,850.

Okla., Miami—Contract for five bridges for Ottawa County awarded to CONCRETE STEEL AND CONSTRUCTION CO., Joplin, Mo., at $4,240.

Idaho, Parma—(Official)—Contract for steel bridge across Boise River at Parma awarded to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., at $18,580. Noted Oct. 7 and Nov. 4.

Calif., Sacramento—(Official)—Contract for plate girder bascule bridge near easterly side of Yolo By-Pass awarded to SECURITY CONSTRUCTION CO., 38th and Alameda St., Los Angeles, at $24,671. Noted Nov. 11 and Dec. 9.

Que., Hammond—Contract for bridge awarded to A. BEAUCHESNE, Arthabaska. Estimated cost, $4,000.

WATER-WORKS

Proposed Work

Mass., Bernardston—Citizens voted to petition the Legislature to allow town to establish water system. Estimated cost, $30,000.

Mass., Fitchburg—City will soon make loan of $250,000, $130,000 of which will be used for improving water-works.

Conn., Bridgeport—Bridgeport Hydraulic Co. will develop its water shed in Saugautuck Valley.

Conn., Collinsville—Plans being considered by Collinsville Water Co. for filtration plant.

N. Y., Batavia—Contract for filtration plant and pumping station will be awarded next spring. Estimated cost, $135,000. Chester & Fleming, Pittsburgh, Penn., Engr. Noted Nov. 4.

N. Y., Buffalo—See item under "Miscellaneous."

N. Y., Lindenhurst—Plans prepared for water system and electric-light plant. Estimated cost, $125,000.

N. Y., New York—(Official)—Bids will be received by William Williams, Commissioner of Water Supply, Gas and Electricity, Municipal Bldg., until 2 p.m., Dec. 24, for furnishing apparatus and appurtenances for applying liquid chlorine to Croton water-supply at Dunwoodie, Yonkers, N. Y.

N. Y., New York—(Official)—Bids will be received by William Williams, Commissioner of Water Supply, Gas and Electricity, until 2 p.m., Dec. 24, for furnishing and erecting a frame building for use as boiler house at the Clove pumping station.

N. Y., New York—(Borough of Manhattan)—See item under "Miscellaneous."

N. J., Butler—Butler Water Co. will extend water system to Lake Keiko next spring. Estimated cost, $12,000. Noted Aug. 26.

N. J., Far Hills—L. V. Ludlow and associates plan the organization of local water company, to install and operate system for Far Hills and Bedminister.

N. J., Keyport—People's Water Co., Keansburg, has applied to Township Committee for bonds for the installation of water system.

Penn., Leighton—City will have plans prepared for water system. A. J. Snyderm, Borough Secy. Noted Nov. 30.

Md., Baltimore—City contemplates installation of water meters in all buildings, except two-story buildings with frontage of 12-ft. Estimated cost, $1,500,000. H. K. McKay, City Engr.

W. Va., Charleston—City Council contemplates municipal water system.

S. C., Johnston—Citizens will hold election to vote on $40,000 bonds for water-works and sewers.

Ga., Columbus—City contemplates reservoir at Pumpkinton Ferry. W. C. Campbell, City Engr.

Ga., Tifton—See item under "Sewers."

Fla., Homestead—Citizens voted $40,000 bonds for construction of water works plant.

Fla., Lake Worth—City will issue $20,000 bonds for water works system.

Ala., Camden—(Official)—Citizens voted $15,000 bonds for water system. B. H. Matthews, City Clk. Noted Nov. 24.

La., Crowley—Citizens will issue $35,000 bonds for water works and electric light.

La., De Ridder—Plans being prepared for water works system by Xavier A. Kramer, Magnolia, Miss. Bids will be called for in about 60 days.

Ky., Bowling Green—Contract will soon be awarded for sedimentation basin at water plant.

Ky., Georgetown—City has purchased a site for water-works and electric-light plant.

Ohio, Belpre—See item under "Light, Heat and Power."

Ohio, Cleveland—City plans to issue $500,000 bonds for improving water system. Charles F. Schultz, Comr. of Water-Works.

Ohio, East View—(Warrensville post office)—Bids will be received until noon, Jan. 17, for sale of $15,095 bonds, for water mains and sewers in East View Ave.

Ind., Orleans—Citizens will construct a water-works system. Estimated cost, $50,000.

Mich., Escanaba—Citizens voted on amendment permitting the issue of bonds for water system. City plans to purchase plant of North Michigan Water Co. for which appraisal is now being made. W. J. Hodson, City Engr. Noted Nov. 18.

Mich., Grand Rapids—Citizens voted $23,000 bonds for installation of water works system. L. E. Stevens, City Engr.

Mich., Saginaw—(Official)—Citizens defeated $750,000 bonds for water system. Noted Oct. 21.

Mich., Watervleit—Bonds for $23,000 voted by citizens for pumping station and water system.

Ill., Galesburg—Bids will be received by William L. Boutelle, City Clk., until Dec. 20, for tubular deep well, about 2,500 ft. deep. F. L. M. Connolly, City Engr.

Minn., McKinley—Citizens voted at special election to enlarge and extend water-works system. Estimated cost, $8,500.

Minn., Tracy—Elevated tank of about 75,000-gal. capacity will be constructed by city.

Kan., Chanute—Citizens contemplate improvement of municipal water works system. Estimated cost, $29,000.

Kan., Humbolt—Citizens contemplate improvement of municipal water works system. Estimated cost, $10,000.

Kan., Hutchinson—Citizens contemplate two-mile extension to water-works system during 1916. Edward Metz, City Clk.

Mo., Kansas City—(Official)—Bids will be received Jan. 12, for steam turbine, reduction gear, centrifugal pumping unit for water-works. Burton Lowther, Ch. Engr. (See adv.)

Ark., Hartford—City contemplates construction of water works.

Tex., Dallas—City will lay new water pipes along Oakcliff St. Estimated cost, $21,500. J. M. Preston, City Engr.

Tex., Elgin—Bonds for $10,000 sold for sinking artesian well. Noted July 29 and Aug. 12.

Tex., Grants Pass—City plans to hold election to vote on $80,000 bonds for municipal water system.

Tex., Texarkana—Citizens voted to improve water-works system.

Tex., Tyler—City will hold election Jan. 23 to vote on $250,000 bonds for municipal water system. H. E. Elrod, Dallas, Consult. Engr. Noted Nov. 18.

Okla., Oklahoma—Plans being prepared for water system. Election will probably be held next March to vote on bonds for same.

Wash., Seattle—City Council contemplates water mains in the following streets: 24th Ave. N. W.; Orcas St. from 42d to 41st Ave. S.; 51st Ave. S.; 14th Ave. N.W., from West 75th to West 85th; Seventh Ave. N.W.; West 55th St. from Sixth to Eighth Ave. N.W.; West 56th St.

Calif., San Francisco—(Official)—The sale of $43,287,000 bonds for Hetch Hetchy project has been canceled. M. M. O'Shaughnessy, City Engr. Noted Nov. 11.

N. S., Glace Bay—Plans for new pumping unit at water-works being prepared by A. McKinnon, City Engr. Estimated cost, $10,000.

Ont., Blenheim—Pere Marquette R.R., Detroit, Mich., is having plans prepared for water system at Blenheim. J. J. Corcoran, Supt.

Ont., New Toronto—City Council considerating installation meters in connection with new water system. Hugh Thomas, Supt.

Ont., Sarnia—City Council considering extensions to water-mains. Estimated cost, $12,000. J. D. Stewart, City Clk.

Ont., Stratford—City plans to lay new water main on Wellington and Britannia St. A. B. Manson, City Engr.

Man., Winnipeg—(Official)—Bids will be received until noon, Dec. 29, by Commissioners of Greater Winnipeg Water District, for the supply of one steam operated dragline excavator. S. H. Reynolds, Chn. (See adv.)

Man., Winnipeg—City will lay water main on Talbot Ave. from Kent St. to east city limits. Estimated cost, $7,000. W. P. Brereton, City Engr.

Man., Winnipeg—City will lay water mains on Academy Rd. and Centennial St. Estimated cost, $13,000. W. P. Brereton, City Engr.

B. C., Port Coquitlam—City plans to install water system next spring. Estimated cost, $100,000. J. R. McKenzie, Mayor.

B. C., Victoria—Plans being considered by Water-Works Department for water main in Douglas St. from end of Sooke Lake pressure main to Herald St. Estimated cost, $4,500. C. H. Rust, City Engr.

Bids In and Contracts Awarded

N. Y., Le Roy—According to press reports, Board of Water and Light Commissioners awarded contract for additional storage tank in connection with new water-works system to PITTSBURGH-DES MOINES STEEL CO., Pittsburgh, Penn. Estimated cost, $5,200. Noted Nov. 25.

Ala., Citronelle—(Official)—Contract for water system awarded to J. W. GURLEY, Mobile. Noted Nov. 25.

Ohio, Ashtabula—Contract for laying water mains across Ashtabula River awarded by Ashtabula Water Supply Co., to GILLEN & CO., Ashtabula. Chester & Fleming, Pittsburgh, Penn., Engr.

Ohio, Upper Sandusky—Contract for installation of low service pump awarded to HARRIS PUMP & SUPPLY CO., Pittsburgh, Penn. Chester & Fleming, Pittsburgh, Penn., Engr. Noted Nov. 4.

Ill., Wheaton—(Official)—Contract for 2,000,000-gal. tank awarded to MEMPHIS STEEL CONSTRUCTION CO., Greensburg, Penn. Estimated cost, $8,843. Noted Dec. 9.

Iowa, Marshalltown—(Official)—Contract for pump for water system awarded to ALLIS-CHALMERS CO., Chicago, Ill. Estimated cost, $14,485. Noted Dec. 9.

Neb., Lincoln—AMERICAN CAST IRON PIPE CO., Birmingham, Ala., at $8,000, awarded contract for 5,200 ft. of 12-in. c.-i. pipe.

Utah, Salt Lake City—Bids were received Nov. 24 for constructing storage dam in Parley's Cañon, as follows: P. J. Morgan, 152 West Second St., at $117,052 and $216,587, alternately, on Ambursen type, and at $226,212, on arched type, completed dam; Parrott Bros., at $75,290, on multiple-arch type, first unit, and at $138,839 on completed dam, and $88,670, arched concrete type, first unit. Noted Sept. 16 and Oct. 14.

Ont., Brockville—City Council will lay water mains in Cedar, James, Charles and Pearl St., by day labor. G. H. Bryson, City Engr.

Ont., Hespeler—Contract for water works pumping station awarded to GRILL BROS.

B. C., Port Moody—Contract for water system awarded to ROBERTSON-GOODSON CO., Vancouver, at $37,050. Noted Dec. 9.

SEWERS

Proposed Work

R. I., Providence—Bids will be received Dec. 20, for furnishing sewer pipe, branches, etc., for Department of Public Works. W. C. Polkey, City Clk.

N. Y., New York—(Borough of Manhattan)—Bids will be received by Marcus M. Marks, Borough Pres., until Dec. 20, for improving sewer in East 70th St.

N. Y. New York,—(Borough of Manhattan)—See item under "Miscellaneous."

N. Y., Oneonta—Plans being prepared for sewage disposal plant. Estimated cost, $45,000. F. M. Gurney, City Engr. Noted Nov. 11.

N. Y., Wappingers Falls—Bonds for $15,000 voted for sewer system. H. L. Sterling, Wappingers Falls, Engr.

S. C., Johnston—City plans to vote on $40,000 bonds for sewers and water-works.

Ga., Tifton—Citizens plan election to vote on $100,000 bonds for sewer system and water-works.

Fla., Gainesville—Citizens voted $21,000 bonds to extend sewer system.

Fla., Gainesville—See item under "Streets and Roads."

Ohio, Cheviot—(Cincinnati post office)—Bids will be received until noon, Dec. 22, for sewer in Beech St. from Harrison to Mozart Ave. Albert J. Reusing, City Clk.

Ohio, Cleveland—Bids will be received by A. R. Callow, Commissioner of Purchases and Supplies, City Hall, until noon, Dec. 23, for construction of nine sewers in various streets. Robert Hoffman, 405 City Hall, Engr.

Ohio, Dayton—Contract will soon be awarded for 61,000 ft. of sewer pipe. Estimated cost, $10,000.

Ohio, East View—(Warrensville post office)—See item under "Water-Works."

Ohio, Mansfield—Bids will be received until Dec. 23, for improvement of sewer in Reed and Tremont St., also construction of 8-in. sanitary sewer. W. R. Kuhn, Secy. Bd. of Control.

Ohio, New Comerstown—(Official)—Bids for sewage-disposal plant will not be received until the spring. Estimated cost, $60,000. E. Beaty, City Engr. Noted Nov. 11.

Ohio, Painesville—Bids will be received by F. A. Tuttle, Dir. of Pub. Ser., until Dec. 22, for constructing sewers. Estimated cost, $38,750. F. N. Downer, City Engr. Noted Dec. 9.

Ohio, Toledo—Plans being prepared by L. A. Boulay, City Engr., for a sewage pumping station between Glendale Ave. and limits of Maumee. Estimated cost, $40,000.

Ohio, Toledo—County Commissioners plan to build sewer from Sylvania Ave. to Ten Mile Creek, about 1½ mi. L. A. Boulay, County Engr.

Ohio, Xenia—Contract will be awarded some time this winter for sewage-disposal plant. Estimated cost, $60,000. Noted Oct. 14 and Nov. 11.

Ohio, Youngstown—City contemplates over 40 miles of sewers. F. M. Lillie, City Engr.

Ind., Anderson—Citizens will hold election to vote on sewer system in Third St. from Madison Ave. to Sycamore St.

Ind., Indianapolis—Board of Public Works approved expenditure of $114,560 for new sewer in Warman Ave.

Mich., Bad Axe—Citizens voted $38,500 bonds for sanitary sewer system.

Mich., Flint—E. C. Shoecraft, City Engr., has recommended an appropriation of $137,000 for storm and sanitary sewers during 1916 which has been approved by City Council.

Mich., Grand Rapids—Plans prepared by J. R. Rumsey, Consult. Engr., for sewage-disposal plant at Kent County Home.

Mich., Grand Rapids—Citizens plan to construct a sewage-disposal plant. Estimated cost, $1,500,000.

Mich., Jackson—Citizens plan to construct sewage disposal plant.

Ill., Peoria—Plans being prepared by L. D. Jeffries, City Engr., for sewer system in Second Ward. Bids will be received in spring.

Ill., West Chicago—Citizens voted to construct sewer system. Estimated cost, $130,000. Noted Oct. 7.

Wis., Beloit—City plans to build storm sewers next year. G. E. Heebink, City Engr.

Wis., La Crosse—City plans to award contract next March for extetnding sewer system. George Bradish, City Engr. Noted Sept. 30.

Wis., New Lisbon—City will not install sewer system until next spring. W. G. Kirchoffer, 24 North Carroll St., Madison, Engr. Noted Dec. 9.

Wis., Superior—City plans to construct sewers at an estimated cost of $40,000 to $100,000.

Wis., West Allis—City will build sewage-disposal plant.

Iowa, Mason City—Contract for sewage disposal plant will be let about Jan. 6. Estimated cost, $100,000. Noted Dec. 2.

Ia., Northwood—City Council plans sewerage system in Northwood.

Ia., Rock Island—City Council plans sewer. Estimated cost, $4,500.

Minn., Benson—City retained S. B. Gardner, Engr., Benson, to make preliminary survey for sanitary sewer and sewage-treatment plant. About $16,000 available for this purpose.

Minn., Duluth—City will construct sewer in Billings Park District, and alley between Washington and New York Ave. from 21st to Belnap St.

Minn., Minneapolis—According to press reports City Council plans expenditure of $100,000 for deep tunnel sewers. Carl Illstrup, City Sewer Engr.

Minn., St. Paul—Bids will be received by A. Hohenstein, City Pur. Agt., until 10:30 a.m., Dec. 20, for sewer in East St Claussen, City Engr. Noted Dec. 9.

Neb., Lincoln—Contract will soon be awarded for storm sewer in J St. Estimated cost, $6,500. T. H. Berg, City Engr.

Neb., Omaha—City plans to award contracts for sewer work early next year. Estimated cost, $100,000. E. E. Brown, City Engr.

S. D., Alexandria—(Official)—Citizens recently voted against installation of sewer system. Noted Dec. 2.

Mo., Brookfield—Plans prepared for sewer system in District No. 34. Bids will soon be received.

Mo., Jefferson—Plans being prepared for construction of storm sewers in Walnut and McCarty St.

Ark., Rogers—Bids will be received until Dec. 20, by Charles S. Applegate, Secy. Bd. of Sewer Improvements, for sewer system in District No. 3.

Tex., Belton—The Attorney General refused approval of $40,000 bonds for sewer system. City Council has ordered another election to be held Jan. 4. Noted Dec. 2.

Tex., Graham—Citizens will hold election to vote on bonds for sewer system.

Tex., Houston—City will build storm sewers in Leeland Ave. and Andrew St., from Main to Crosby St., in Day and Eagle Ave. from West Alabama Ave. to San Jacinto St. and Hathaway Ave. E. E. Sands, City Engr.

Ont., Alvinston—Town Council is considering improvements to sewers. W. J. Weed, City Clk.

Ont., Brockville—Town Council will install electric sewage pump at the Fair Grounds Military Camp. George Bryson, City Engr.

Ont., Gulph—City Council plans to construct sewers in Mitchell, Galt and Fergus St. F. McArthur, City Engr.

Ont., London—City Council plans sewers in Dundas and Adelaide St. H. A. Brazier, City Engr.

Ont., Toronto—Bids will be received until noon, Dec. 21, by Board of Control, for constructing sewers on various streets. C. H. Rust, City Engr.

Bids In and Contracts Awarded

Mass., Boston—(West Roxbury)—Contract for sewer work in Saville St., West Roxbury, awarded to WILLIAM L. DOLAN, 44 Tower St., West Roxbury, at $6,375.

N. Y., New York—(Borough of Bronx)—Official—Lowest bidder for sewer and connections was Briggs & McLaughlin Contracting Co., at $4,230.

N. J., Linden—Township Committee awarded contract for installation of sewer in Wood Ave. to MATHEW WADE, Elizabeth.

N. J., Ridgefield Park—Fred E. Gross, Yonkers, submitted lowest bid for sewer system in West View Section, at $27,794. Noted Dec. 2.

Penn., Philadelphia—Contract for sewer work at foot of Snyder Ave. awarded to D. A. CONAN, 1345 Arch St., Philadelphia, at about $22,000.

Penn., Philadelphia—Robert F. Higgins, 4642 Lancaster Ave., Philadelphia, submitted lowest bid, at $70,000 for Rock Run sewer.

Md., Baltimore—Board of Awards received bids Nov. 24 for Section No. 1, Waverly trunk sewer and lateral sewers in District No. 34-D, Contract No. 168 and 169, as follows: (a) Frank Carozza, $40,126; W. H. & C. F. Thompson, $10,000 F. B. Beasman & Co., $10,322; (b) Thomas Hampton Co., $9,888; Frank Carozza, $10,240; F. B. Beasman & Co., $10,402.

S. C., Charleston—Contract for pipe drains in portions of Poplar, Romney and various other streets awarded to CHARLESTON ENGINEERING AND CONTRACTING CO., Charleston, at $16,780.

Tenn., Cleveland—Contract for reinforced-concrete sewage disposal plant awarded to CONCRETE-STEEL CONSTRUCTION CO., Cleveland. W. C. Kirkpatrick, Birmingham, Ala., Engr.

Ind., Indianapolis—Contract for Ohio and Harding St. sewer, awarded to COLUMBIA CONSTRUCTION CO., Indianapolis. B. J. D. Jeup, City Engr.

Mich., Harbor Beach—(Official)—Contract for sanitary sewer system and disposal plant awarded to McHALEY & EDWARDS, Milan, Mich. Estimated cost, $16,209. Noted Dec. 2.

Ill., Chicago—All bids received Dec. 2 for Calumet Intercepting sewer, Contract No. 4 rejected by Board of Trustees of Sanitary District. Noted Nov. 4.

Ill., Dixon—HATCH & MONTAGUE, Niles, at $51,555, awarded contract for concrete tunnels at State Epileptic Colony near Dixon, and LOGAN & GIERTZ, at $27,700, for sanitary sewers. Noted Nov. 18.

Minn., South St. Paul—(Official)—Contract for sewer in Third St. and Third Ave. awarded to TANNER BROS., St. Paul. Estimated cost, $24,490. Noted Nov. 4.

Idaho, Bonners Ferry—(Official)—Contract for sewer system and sewage-disposal plant awarded to CLIFTON APPLEGATE CO., Spokane, Wash. Estimated cost, $23,493.

Calif., Lodi—Bids have been rejected for furnishing city with 1,300 ft. of 18-in. sewer pipe.

Ont., Berlin—Contract for pumps for new sewage-disposal plant awarded to CANADIAN ALLIS-CHALMERS, LTD. Estimated cost, $4,402.

Ont., London—Contract for sewers on Egerton and William St. awarded to BLIGHT & FIELDER.

Garbage

Proposed Work

N. Y., Perry—City contemplates garbage disposal plant.

Va., Norfolk—W. R. Russell, Supt. of St. Cleaning Dept., has recommended installation of new garbage incinerator in Norfolk.

Ind., Ft. Wayne—(Official)—Bids will be received at office of Board of Public Works until 3 p.m., Jan. 3, for construction of garbage incinerator. H. W. Becker, Clk. Noted Aug. 5 and Oct. 21. (See adv.)

Ont., Crowland—J. G. Stephenson, Welland, contemplates garbage-disposal plant. Estimated cost, $20,000.

STREETS AND ROADS

Proposed Work

Conn., Hartford—Bids will be received by State Highway Commission until 2 p.m., Dec. 21, for constructing road in Branford, Thompson, Cornwall and Portland Townships and city of Norwalk.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received until 10:30 a.m., Dec. 23, by Douglas Mathewson, Borough Pres., for improving Odell St. from Unionport Rd. to Starling Ave.; Newbold Ave. from Catsle Hill to Zerega Ave.; Waterbury Ave. from Westchester Ave. to Zerega Ave.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received until noon, Dec. 20, by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., for repairing asphalt pavements on marginal streets and piers, North, East and Harlem Rivers; also on Dec. 21 for wood-block pavement in the team gangways and wagon-way spaces of the municipal ferryboats "Manhattan," "Bronx," "Queens," "Brooklyn," "Richmond," "Bayridge," "Gowanus," "Nassau" and "Mayor Gaynor."

N. Y., Schoharie—Board of Supervisors of Schoharie plans to construct 17 miles of roads in Schoharie County.

N. J., Haddonfield—Bonds for $55,000 sold. Proceeds will be used for improving streets.

N. J., Newark—Board of Freeholders plans to improve Roseville Ave. with wood block pavement.

N. J., New Brunswick—Bids will be received by Board of Freeholders of Middlesex County until Dec. 20 for repairing eight miles of Cranbury Turnpike.

N. J., Newton—Board of Freeholders of Sussex County will apply to State Road Commission for appropriation of $10,000 for road improvements. E. A. Stevens, Comr.

N. J., Ocean Grove—(Official)—Bids will be received by Frank P. Butcher, Township Clk., 75 South Main St., until 7:30 p.m., Dec. 27, for paving South Main St. (See adv).

N. J., Wildwood—Board of Freeholders of Cape May County, Cape May C. H., will resurface boulevard from Wildwood to mainland. Estimated cost, $80,000.

Penn., Eldred—(Official)—Bids will be received by G. W. Russell, Pres., Eldred Borough Council, until 8 p.m., Dec. 22, for improving Main St.

Md., Baltimore—Bids will be received until Dec. 22 by R. Keith Compton, Chn. Paving Comn., for paving Pratt St. from Linwood Ave. to east city limits. M. K. McCay, City Engr.

Md., Baltimore—City plans to widen St. Paul St. from Lexington to Hamilton St.

Va., Abingdon—Bonds for $18,000 sold by Board of Supervisors of Washington County for road construction on Kinderhook District.

Va., Pulaski—City Council plans to improve Randolph Ave. from Fifth to 14th St.

W. Va., Martinsburg—Bids will be received next spring for approximately 7,000 sq.yd. asphalt or brick pavement. E. D. Bromley, St. Comr.

W. Va., Terra Alta—Citizens of Preston County voted $265,000 bonds for road work.

N. C., Wilson—Bonds for $130,000 sold for street improvements. Noted Sept. 23.

Ga., Mason—City Council plans to pave Coleman Ave. with concrete.

Fla., Gainesville—Citizens voted $21,000 bonds for paving portion of University Ave. and extending sewer system.

Fla., Kissimmee—Bids will soon be received for paving Main St. with brick. Estimated cost, $12,000.

Fla., Tampa—Bids will be received by D. B. McKay, Chn., Comrs. of Pub. Wks., until Dec. 20, for 112,650 sq.yd. asphalt block pavement and 3,500 sq.yd. concrete pavement.

Ala., Dothan—Bids will be received by A. C. Crawford, Chn. of Bd. of Revenue, until Dec. 30, for road from Dothan toward Midland City, seven miles.

Ala., Eutaw—Commissioners of Greene County plan an expenditure of between $10,000 and $15,000 for highway from Eutaw to Finch's Ferry.

Ala., Monroeville—Bids will be received by County Board of Revenue until Dec. 27 for grading, draining and surfacing with gravel section of Old Federal Rd. P. W. Turner, County Engr.

Ala., Opelika—Bids will be received by County Commissioners until Dec. 27 for sand clay road. Estimated cost, $11,000. W. S. Keller, Montgomery, State Highway Engr.

Ala., Rockford—Bids will be received by County Commissioners until Jan. 11 for grading and topsoiling Rockford and Kellyton Rd., about 4½ miles.

La., New Orleans—(Official)—Bids will be received at office of Highway Department of Board of State Engineers, Room 104, New Orleans Court Bldg., until noon, Jan. 3, for section of Gretna-Belle Chasse Highway, Plaquemines Parish. W. E. Atkinson, State Highway Engr.

Tenn., Athens—Commissioners of McMinn County contemplate $100,000 bond issue for road construction.

Ky., Harlan—Election will be held Feb. 12 to vote on $250,000 bonds for road construction.

Ohio, Defiance—Bonds for $25,000 will be sold by County Commissioners for road improvements.

Ohio, East Cleveland—City will sell $25,000 bonds Jan. 4 for improving Terrace Rd. E. L. Hickey, City Audr.

Ohio, East View—(Warrensville post office)—Bids will be received by Charles E. Burger, Clk., East 143d St., until noon, Jan. 17, for improving East View Ave. Estimated cost, $29,800.

Ohio, Kenton—City will pave West Franklin St. Estimated cost, $19,500.

Ohio, Lisbon—(Official)—Bids will be received until 1 p.m., Dec. 27, by Village Trustees for improving East Liverpool Lisbon Rd. H. C. Armstrong, Lisbon, County Highway Supt.

Ohio, Painesville—Bids will be received by city until Dec. 22 for 5,942 sq.yd. brick paving on Richmond St. F. N. Downer, City Engr.

Ohio, Painesville—Plans prepared by F. N. Downer, City Engr., for 6,360 sq.yd. brick pavement on Jackson St.

Ind., Anderson—Bids will be received until Jan. 8 by the Commissioners of Madison and Delaware Counties for improving highway on line between counties. Joel B. Beneffel, Audr. Madison County.

Ind., Crawfordsville—Bids will be received by B. B. Engle, Audr., Comrs. of Montgomery County, until 10 a.m., Jan. 4, for road in Ripley Township.

Ind., Franklin—Bids will be received by H. L. Knox, Audr., Comrs. of Johnson County, until 2:30 p.m., Dec. 31, for two gravel roads.

Ind., Greenfield—Bids will be received by L. Woods, Audr., Comrs. of Hancock County, until 10 a.m., Jan. 3, for gravel road in Jackson Township.

Ind., Marion—Bids will be received by E. H. Kimball, Audr., Comrs. of Grant County, until 2 p.m., Jan. 4, for road in Center Township.

Ind., New Castle—Bids will be received by P. A. Walford, Audr., Comrs. of Henry County, until 10 a.m., Dec. 31, for road in Harrison Township.

Ind., Noblesville—Bids will be received by W. O. Horton, Audr., Comrs. of Hamilton County, until 10 a.m., Jan. 4, for road in Noblesville Township.

Mich., Grand Rapids—Board of Public Works will pave Union Ave., with bituminous concrete, from Pleasant to Franklin St. L. E. Stevens, City Engr.

Mich., Iron River—An election will be held Dec. 27 to vote on $40,000 in bonds to improve a number of streets.

Mich., Watervliet—At recent election citizens voted to extend Butternut St.

Joliet, Ill.—Board of Local Improvements plans to pave Cass St. with brick; estimated cost, $32,987.

Ill., Rockford—(Official)—Bids will be received by W. W. Bennett, Pres., Bd. of Local Improvements, until 1:30 p.m., Dec. 22, for paving with brick portions of Kishwaukee St. (See adv.)

Ill., Rock Island—City plans to pave Eighth Ave. and 24th and 29th St. with asphalt. Estimated cost, $15,052.

Ill., Sterling—City plans to pave Third St. and Sixth Ave. Estimated cost, $80,000. A. G. Hubbard, Engr.

Wis., Baraboo—City will construct about 9,000 sq.yd. of pavement and 5,000 lin.ft. of gutter. Estimated cost, $10,000. A. E. French, City Engr.

Wis., Caledonia—Election will soon be held to vote on $8,000 bonds for road improvements.

Wis., Oshkosh—City will improve number of streets and avenues during 1916.

Minn., Rochester—City plans to pave North Broadway. J. C. Utton, City Engr.

Neb., Omaha—Bids will be received by City Commission until Dec. 28 for paving in District No. 1438, 1545, 1548 and other districts, about five miles. E. E. Bruse, City Engr.

S. D., Sioux Falls—Plans being considered by Commissioners of Minnehaha County for improving 125 miles of highway within next few years. Estimated cost, $500,000.

Mo., Cleveland—Kansas City-Joplin Short Route Rock Road Association organized to build rock road between Cleveland and Joplin.

Mo., Marshall—Election will be held Feb. 19 to vote on $1,310,000 bonds for 92 miles of rock roads.

Mo., Nevada—Election will soon be held to vote on rock surfacing about 250 mi. of roads.

Mo., Sweet Springs—Citizens plan to establish district to rock surface eight miles of road. Estimated cost, $50,000.

Orange, Tex.—Citizens defeated $50,000 bond issue for roads and bridges. Noted Oct. 28.

Idaho, Wallace—(Official)—Bids will be received by W. W. Smith, Chn. of Finance Com., until Jan. 15, for paving and improving streets of District No. 4. Robert Merriam, City Engr. Noted Dec. 2.

Utah, Logan—City plans to pave about 30,000 sq.yd. with concrete. Roy Ballen, City Engr.

Ariz., Flagstaff—Election will soon be held to vote on $200,000 in bonds for hard surfacing roads in Coconino County.

Ariz., Tucson—Plans being prepared by W. C. Goetz, County Engr., for mountain resort road, about 19 miles, and commercial roads. Estimated cost, $100,000 and $300,000 respectively.

Wash., Olympia—Contract for paving will will be awarded early next year. Estimated cost, $11,000. J. B. Weddell, City Engr.

Wash., Seattle—Report submitted to Board of Public Works by A. H. Dimock, City Engr., estimating cost of paving Burke Ave. at $50,000.

Ore., The Dalles—Commissioners of Wasco County plan $340,00 bond issue for constructing roads.

Calif., Los Angeles—Bids will be received by Board of Supervisors of Los Angeles County until 2 p.m., Dec. 27, for concrete pavement on southerly five miles of Mint Cañon Rd., Section A, Rd. Dist. No. 5. Estimated cost, $68,000.

Calif., Ontario—Bids will be received until Jan. 10 by the City Council for the improvement of East State St. and Euclid Ave.

Calif., Santa Monica—City Council plans to pave Beach Rd. from Colorado St. northward to Santa Monica Cañon outlet. Estimated cost, $50,000.

Ont., Leamington—Town Council considering paving Mill and Russell St. with concrete. R. M. Selkirk, Clk.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for improving 96th St. from Second Ave. to point east of easterly house line of Lexington Ave. awarded to W. J. FITZGERALD, 547 West 45th St., New York, at $7,186. Noted Nov. 18 and Dec. 2.

N. J., Perth Amboy—Contract for improving High, First and Commerce St. and Hall, Watson, Brighton and Catalpa Ave. awarded to OLIVER W. RAMSAY, Perth Amboy, at $110,000.

Penn., Greensburg—Frank T. Byers, Mt. Pleasant, at $23,841, submitted lowest bid for brick road in Mt. Pleasant Township.

Penn., Philadelphia—Contract for granolithic walks in Clarence Clark Park awarded to D. A. CONAN, 1345 Arch St., Philadelphia, at about $5,000.

W. Va., Princeton—(Official)—Contract for 6¼ miles of water bound macadam road in Mercer County awarded to SULLIVAN, TILSON & CARTER, Bluefield, at $28,936. Noted Nov. 18.

N. C., Charlotte—(Official)—Contract for 17,500 sq.yd. of paving awarded to A. H. GUION, Gastonia, at $20,505. Noted Nov. 4 and Dec. 2.

La., Franklin—Contract for road between Franklin and Iberia awarded to PERRY BONNER.

Ky., Albany—(Official)—John G. Huff & Co., at $8,640, submitted lowest bid for three miles of macadam road.

Ohio, Columbus—Lowest bids received Dec. 3 by State Highway Commission for road work were as follows: Cincinnati-West Union Rd., Hamilton County, 1.11 miles, H. W. Curry & Co., Eaton, $14,350; Cincinnati-Chillicothe Rd., Hamilton County, 0.94 mile, Warren Bros. Co., Boston, Mass., $13,100; Lancaster-Logan Rd., 1.35 miles, R. G. Culbertson, Richmond, Ind., $20,756; Mansfield-Millersburg Rd., 1.59 miles, Philip Dieffenbacker, Massillon, $26,800; Pomeroy-Jackson Rd., 0.29 mile, John Lindsay, Middleport, $6,000; Findlay-Tiffin Rd., 2.59 miles, G. W. Eicher, Fostoria, $16,839; Urbana-Marysville Rd., John J. Porter, Marysville, $4,631; West Unity-Montpelier Rd., 2.09 miles, Kelley Construction Co., Bryan, $19,196; Cincinnati-Louisville Rd., 1.74 miles, H. W. Curry & Co., Eaton, $11,828; Cincinnati-West Union Rd., 0.90 miles, H. W. Curry & Co., Eaton, $5,200. Noted Nov. 25.

Ind., Brazil—(Official)—Contract for two roads in Harrison Township awarded to JOHN WEATHEUVAX, Clay City, at $4,964. Noted Nov. 11.

Ind., Brookville—Contract for macadam road in Franklin County awarded to F. W. WILSON, Brookville.

Ind., Delphi—Contract for road work in Carroll County awarded to WILLIAM MANLEY, Frankfort, at $18,973. Noted Sept. 23 and Oct. 28.

Ind., Franklin—Contract for road in Johnson County awarded to BROWN & PITCHER, Trafalger, at $6,127.

Ind., Kentland—(Official)—Contract for macadam road in McClellan Township awarded to F. A. CAMBLIN, Morocco, at $5,960. Noted Nov. 11.

Ind., Kokomo—Contract for road in Howard County awarded to JAMES H. WATSON & CO., Kokomo, at $10,933.

Ind., Mt. Vernon—Contract for road work in Posey County awarded to MT. VERNON CONSTRUCTION CO., Mt. Mernon, at $5,968; and L. J. UTLEY, Bethel, at $3,549.

Ind., Muncie—Commissioners of Delaware County awarded contracts for road work as follows: FRANK HINES, at $10,390, for Edward C. Schwar Rd., Mt. Pleasant Township; LORING S. GATES, at $4,990, for John B. Jackson Rd., Perry Township; FRANK HINES, at $2,290, for Thomas Hiatt Rd., Mt. Pleasant Township; BORTER ROSS, at $3,995, for Lewis E. Oxley Rd., Perry Township. Noted Nov. 18.

Ind., Salem—FRED SIMPSON, Salem, at $8,690, awarded contract for road work in Washington County.

Iowa, Idagrove—Contract for paving awarded to NATIONAL ROOFING CO., Omaha, Neb., at about $97,000. Noted Nov. 18.

Minn., St. Paul—All bids received for improving Arcade St. have been rejected.

Mo., Kansas City—SMITH BROS. awarded contract by J. C. Nichols Realty Co. for grading 58th St., 58th St. Terrace, 59th St. Terrace, Huntington Rd. and Bellevue Ave.

Mo., Sedalia—(Official)—Contract for 9,200 sq.yd. of vertical fiber brick paving awarded to W. MENEFEE, Sedalia, at $1.64 per sq.yd. Noted Oct. 21 and Nov. 11.

Ark., Pocahontas—H. C. NIXON, Argenta, awarded contract for pike road from Revenden Springs to Ravenden Station.

Okla., Muskogee—(Official)—H. B. Wilson, at $8,000, submitted lowest bid for road improvements in Muskogee County. J. B. Clonts, County Engr. Noted Nov. 11.

Wash., Bellingham—KNUTE SAUSET, Bellingham, at $17,625, awarded contract for paving South Elk and 11th St.

Wash., North Yakima—(Official)—S. A. Shockley, Outlook, at $4,570, submitted lowest bid for Permanent Highway No. 1[illegible] and Cascade Construction Co., Seattle, at $4,935, for Permanent Highway No. 17. O. E. Brashears, County Engr.

Calif., San Jose—J. W. McDONALD, JR., Monadnock Bldg., San Francisco, at $13,930, awarded contract for paving San Carlos St.

Calif., San Mateo—Contract for paving awarded to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco, at $8,432.

INDUSTRIAL WORKS

Proposed Work

Mass., Lynn—Plans being prepared for four-story, 50x100-ft. factory at 17 Stewart St., for Campbell Electric Co.

Mass., Maplewood—(Boston post office)—H. H. Kelly Co. will build two-story, 40x120-ft. factory. Estimated cost, $20,000.

Mass., Worcester—Bids will soon be received for superstructure of one-story, 60x62-ft. garage and salesroom for J. Francis Southgate, 5 Crown St. Estimated cost, $15,000. C. S. Ziroli, 306 Main St., Arch.

Conn., New Haven—According to press reports plans are being prepared for extensive additions to plant of Maxim Munitions Co.

Conn., New Milford—Lonsdale Linen Co., Lonsdale, R. I., purchased site at New Milford for large bleachery.

Conn., Stamford—American Cupro Nickel Co. will build rolling mill on Fairfield Ave. Emmens & Abbott, Arch.

N. Y., Buffalo—Farmamel Manufacturing Co., Inc., purchased site at Chandler St. and New York Central R.R. for grain elevator and feed mill.

N. Y., Buffalo—Contract will soon be awarded for garage for Charles M. Peabody, 588 Main St. Estimated cost, $20,000.

N. Y., Buffalo—Pierce Arrow Motor Car Co. will build two-story addition to plant at 1661 Elmwood Ave. Estimated cost, $12,000.

N. Y., New York—(Borough of Bronx)—Plans prepared by Wesley S. Bessell, Arch., 3 West 29th St. (Borough of Manhattan), for garage at Webster Ave. and 170th St., for Manderkin Building Co. Estimated cost, $10,000.

N. Y., New York—(Borough of Bronx)—Official)—Plans prepared by Homer A. Reid, Arch., 347 Fifth Ave. (Borough of Manhattan), for two-story, 85-95-ft. ice and cold-storage plant on 170th St. near Third Ave. for Tremont Fireproof and Refrigerating Co. Estimated cost, $60,000.

N. Y., New York—(Borough of Bronx)—Official)—Plans being prepared by Richard A. Wright, Arch., 233 Broadway (Borough of Manhattan), for one-story, 76x127-ft. factory for Sigmund Ullman Co., Park Ave. and 146th St. Estimated cost, $15,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—Plans prepared by Shampan & Shampan, Arch., 772 Broadway (Borough of Manhattan), for one-story, 85x90-ft. building at Bedford Ave. and Prospect Pl., for Triangle Holding Co., 44 Court St., to be used for auto showrooms. Estimated cost, $35,000.

N. Y., New York—(Borough of Manhattan)—Plans being prepared by J. A. Fitzpatrick, Arch., 71 Broadway, for factory at Montgomery and Water St., for Butwell Building Corporation, 120 Broadway. Estimated cost, $125,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared for garage on 127th St. near Broadway by J. M. Felson, Arch., 1133 Broadway, for Klein Operating Co. Estimated cost, $20,000.

N. Y., Poughkeepsie—C. F. Hoag Co. plans to build factory and fire tower at Poughkeepsie.

N. Y., Poughkeepsie—Fred Smith plans to build two-story, 38x142-ft. garage. Estimated cost, $40,000. W. J. Beardsley, 49 Market St., Arch.

N. Y., Utica—Linde Air Products Co. purchased site on Walnut St., between Schuyler and Stark St., for plant.

N. J., Elizabeth—Plans prepared by F. G. Ring, Arch., 280 North Broad St., for machine shop for S. L. Moore & Sons Corporation. Estimated cost, $200,000. Other additions will be made later which will aggregate $1,500,000.

N. J., Rockaway—Plans being prepared for one-story, 173x300-ft. shop for International High Speed Steel Co., 99 Nassau St., New York, N. Y.

Penn., Chambersburg—Chambersburg Ice and Cold Storage Co. has increased its capital stock from $20,000 to $50,000 and will use proceeds for enlarging its plant on Grant St.

Penn., Oakmont—Plans being prepared for three-story, 150x300-ft. factory for Autocar Co., 23rd and Market St., Philadelphia. Stearns & Castor, Stephen Girard Bldg., Philadelphia, Arch.

Va., Pulaski—Press reports state that New York capitalists plan to build an iron plant. Estimated cost, $500,000. K. Thomas, Engr., New York, N. Y., interested.

W. Va., Chester—Chester Rubber Tire and Tube Co. plans to build one-story addition to its plant. Estimated cost, $20,000. Philip Freshwater, Gen. Mgr.

N. C., Shulls Mills—Sawmill and dry kilns will be constructed by Boone Fork Lumber Co., Elizabethton, Tenn. Estimated cost, $100,000. M. Miller, Supt.

S. C., Clover—Company will be organized by M. L. Smith, Secy.-Treas. of Clover Cotton Manufacturing Co., with $200,000 capital stock, to build cotton yarn mill.

Ala., Dothan—Home Guano Co. contemplates expenditure of $75,000 for enlarging and improving its plant. M. L. Hannahan, Gen. Mgr.

La., Slidell—Salmen Brick and Lumber Co. plans to build a sawmill with a daily capacity of 150,000 ft. E. H. Michel, Whitney-Central Bank Bldg., New Orleans, Sales Mgr.

Tenn., Nashville—Golden Grain Co., recently incorporated, contemplates construction of cereal mill. W. M. Carr and H. G. O'Kain interested.

Ohio, Cleveland—Cleveland, Akron & Canton Terminal Railway Co. will build ten-story warehouse. Estimated cost, $1,000,000. O. C. Barber, Pres.

Ohio, Cleveland—Cleveland Machine and Manufacturing Co. contemplates one-story pattern storage building. Estimated cost, $20,000.

Ohio, Columbus—Farmers' Fertilizer Co. contemplates plant for manufacture of sulphuric acid. Estimated cost, $200,000.

Ohio, Dayton—W. A. Apple & Co., 343 Cincinnati Rd., plans to rebuild its factory recently destroyed by fire. Estimated cost, $15,000.

Ohio, East Palestine—W. S. George Pottery Co. plans to build one and two-story, 150x400-ft. factory and office building. W. S. George, Pres.

Ohio, Girard—Carnegie Steel Co., Youngstown, plans to build plant near Girard. Estimated cost, $10,000,000. Thomas McDonald, Dist. Supt.

Ohio, Kent—Plans being prepared by W. C. Owen & Co., Arch., Leader News Bldg., Cleveland, for two-story factory for Mason Tire and Rubber Co. Estimated cost, $60,000. O. M. Mason, Pres. Noted Dec. 2.

Ohio, Lima—Solar Refining Co. contemplates an expenditure of $700,000 for enlarging and improving its plant.

Ohio, Mansfield—Mansfield Sheet and Tin Plate Co. will build a 140x240-ft. finishing mill to cost approximately $65,000.

Ohio, Shadyside—Belmont Casket Co. contemplates expenditure of $40,000 for addition to its plant.

Ohio, Springfield—Preliminary plans prepared for one-story, 50x200-ft. garage for city. Estimated cost, $20,000. R. C. Gotwald, 54 Gotwald Bldg., Arch.

Ohio, Springfield—Plans being prepared by W. E. Russ, Merchants National Bank Bldg., Indianapolis, Ind., for four-story, 300x300-ft. addition to plant of Robbins & Myers Co. Estimated cost, $150,000. C. F. McGilvray, Pres. Noted Dec. 9.

Ohio, Steubenville—Bids will be received about Jan. 1 by Steubenville Ice Co. for two-story ice plant. Estimated cost, $20,000. G. E. Wisener, Pres.

Ohio, Steubenville—Bids will be received next spring for four-story warehouse for Steubenville Stone Co., 513 Market St. Estimated cost, $30,000. Peterson & Clark, National Bldg., Arch.

Ohio, West Carrollton—Bids will soon be received by Dexter & McCleur, Arch., 405 Canby Bldg., Dayton, for two-story, 75x102-ft. factory for West Carrollton Parchment Co. Estimated cost, $10,000.

Ind., Indian Harbor—Inland Steel Co. plans an expenditure of $5,000,000 for improvements at its plant.

Mich., Grand Rapids—Michigan Railway contemplates one-story, 125x180-ft. warehouse on Mt. Vernon Ave. Estimated cost, $10,000. G. B. Ross, Jackson, Mich., Pur. Agt.

Ill., Chicago—Peoples Laundry Co. will build one-story addition to plant to cost $10,000. F. W. Fischer, 9154 Commercial Ave., Arch.

Wis., Madison—(Official)—Bids will be received some time in January for meat-packing plant for Farmers Coöperative Packing Co. Gardner & Lindberg, 1130 South Dearborn St., Chicago, Ill., Arch. Estimated cost, $200,000. Noted Dec. 2.

Wis., Milwaukee—Morawetz & Co., 217 East Water St. plan to build two-story, 80x120-ft. addition to its plant.

Wis., Mineral Point—P. O. Vivian will build a machine shop and garage to cost $10,000.

Wis., Oshkosh—Plans being prepared by Fluor Bros., Construction Co., Arch., 511 State St., for two-story, 40x80-ft. factory for Carver Ice Cream Co., 714 South Main St.

Wis., Oshkosh—Morgan Lumber Co. plans to build three-story, 80x194-ft. factory next spring. Estimated cost, $25,000. Fluor Bros. Construction Co., 511 State St., Arch.

Iowa, Des Moines—Plans prepared by F. W. and E. B. Clarke, Archs., Omaha, Neb., for three-story, 45x160-ft. warehouse for Farmers Coöperative Produce Co. Noted Dec. 9.

Kan., LeHunt—(Sycamore post office)—Sunflower Cement Co. contemplates an expenditure of $100,000 for improving and enlarging its plant.

Mont., Great Falls—Great Western Sugar Co. plans three or four sugar factories in States of Montana and Nebraska. First factory will be built at Great Falls.

Mo., Kansas City—Plans prepared by S. B. Tarbot & Co., Arch., for two-story, 100x120-ft. laundry for Graham Domestic Laundry Co. Estimated cost, $30,000.

Mo., Kansas City—Plans being prepared by C. M. Williams, Arch., Rialto Bldg., Kansas City, for five-story reinforced-concrete storage and warehouse for J. R. Hulse Storage and Transfer Co.

Mo., St. Louis—Warehouse of Belcher Sugar Refining Co., Main and Ashley St., purchased by Booth Fisheries Co., Chicago, who plan to build addition. Estimated cost, $50,000.

Mo., St. Louis—The Larmore Ice Cream Co. will build factory on Easton Ave. Estimated cost, $15,000. J. C. Donovan, Arch.

Mo., St. Louis—Plans being prepared by Barnett, Haynes & Barnett, Arch., Century Bldg., for eight-story publishing house for Pulitzer Publishing Co., 212 North Broadway. Estimated cost, $200,000. Noted Aug. 19.

Mo., St. Louis—Contract will be awarded in March by J. L. Wees, Arch., 410 Commercial Bldg., for seven-story, 100x250-ft. warehouse and river terminal for St. Louis River Front and Dock Association. Estimated cost, $250,000.

Tex., Dallas—Burgoyne Bros., Hugo, Okla., purchased site at Dallas for lumber mill to cost $80,000.

Tex., Dallas—Expenditure of $50,000 is planned for enlarging and improving Dallas Cotton Mills.

Tex., Galveston—See item under "Miscellaneous."

Tex., Lockhart—Lockhart Oil Mill Co. will rebuild cottonseed oil mill recently destroyed by fire. Estimated cost, $50,000.

Okla., Tulsa—Crosbie & Mitchell plan to construct five-story, 100x140-ft. storage warehouse. Estimated cost, $75,000. C. Winkler, Tulsa, Arch.

Wash., Seattle—Plans being prepared for four-story, Class "A" warehouse at Juneau and Atlantic St. for Oregon-Washington R.R. and Navigation Co. Estimated cost, $50,000.

Calif., Los Angeles—Union Wax and Parchment Co., Hamburg, N. J., purchased site at 50th and Alameda St., Los Angeles, for one-story, 261x396-ft. factory.

Calif., Martinez—W. S. O'Brien plans to construct cement and asphalt plant. Estimated cost, $20,000.

Calif., San Dimas—Plans prepared for pre-cooling plant for San Dimas Orange Growers' Association. Estimated cost, $50,000. C. M. Gay & Son, 335 Towne Ave., Engr.

Calif., San Francisco—Workman Packing Co. has plans for reinforced-concrete packing plant on Seventh St. near Harrison St. Estimated cost, $25,000. C. H. Workman, 180 Erie St., San Francisco, Pres.

Ont., Leamington—S. G. Morse plans to build warehouse. Estimated cost, $25,000.

Ont., Toronto—Automobile Supply Co. will build four-story showroom and garage at 249 Simcoe St. Estimated cost, $50,000.

B. C., Vancouver—American Can Co. contemplates four-story, 125x130-ft. addition to plant at 535 Railway Ave. M. Bigger, Mgr.

Bids In and Contracts Awarded

Mass., Holyoke—Contract for addition to wire mill of D. W. Princeton & Co. awarded to P. J. KENNEDY CO., Holyoke, at $12,000.

Mass., Holyoke—Smith Tablet Co. awarded contract for brick addition to its plant to LYNCH BROS. BRICK CO., 206 High St., Holyoke. Estimated cost, $18,000.

Mass., Indian Orchard—Contract for addition to plant of Fiberoid Co. on Worcester St. awarded to D. W. MELLEN, 293 Bridge St., Springfield.

Conn., Hartford—Contract for rebuilding factory of S. Donchian Rug Co., 205 Pearl St., recently destroyed by fire, awarded to ROBERT PORTENS, 13 Forest St., Hartford. Estimated cost, $10,000.

Conn., Norwich—Contract for addition to plant of Joseph Hall Woolen Mills awarded to DOYLE & MURPHY, Willimantic.

Conn., Stamford—Richards & Co. awarded contract for one-story, 93x186-ft. storage building on Ludlow St. to J. W. FERGUSON CO. Estimated cost, $10,000.

Conn., West Hartford—Contract for a foundry for J. M. Craig, 79 Arch St., awarded to J. H. GROZIER CO., 721 Main St., West Hartford. Estimated cost, $10,000.

N. Y., Buffalo—BRASS BROS. CO., Niagara Falls, awarded contract for group of farm buildings to include dairy, grain elevator, etc., for J. C. Dold, 745 William St., Buffalo. Estimated cost, $40,000.

N. Y., Dansville—Contract for four-story addition to plant of Blum Shoe Co. awarded to A. J. WERDEIN, at $15,000.

N. Y., Gates—Contract for addition to factory of H. Symington Co. awarded to A. FRIEDERICH & SONS CO., Mill St., Rochester. Estimated cost, $25,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to CHAMPLIN CONTRACTING CO., 103 Park Ave., for six-story, 100x100-ft. garage and service station on 67th St. near West End Ave., for Hudson Motor Garage of New York, 1842 Broadway. Noted Nov. 25.

N. Y., New York—(Borough of Queens)—(Official)—Contract awarded to FOUNTAIN & CHOATE, 110 East 23rd St. (Borough of Manhattan), for six-story, 117x217-ft. factory at Skillman and Foster Ave., Long Island City, for Gustav Sandblom, 30 East 42nd St. (Borough of Manhattan). Estimated cost, $110,000. Noted Dec. 9.

N. J., Athenia—Athenia Steel Works awarded contract for steel plant to J. J. O'LEARY CO., 500 Bloomfield Ave., Passaic. Estimated cost, $40,000.

N. J., Elizabeth—Contract for two additions to plant of F. H. Kalbfleisch, Baltic and Third St., awarded to SCHULER CEMENT CONSTRUCTION CO., Waverly, N. J.

N. J., Newark—G. T. Casebolt, 1005 Broad St. awarded contract for garage, automobile sales room and machine shop to BECKER CONSTRUCTION CO., 361 Grove St., Newark.

N. J., Paterson—Contract for ice houses and automatic conveyer for Thomas H. Alyea awarded to GUNN-VAN DALE CO., 31 Clinton St., Newark, at $40,000.

N. J., Shadyside—(Edgewater post office)—(Official)—JOHN W. FERGUSON CO., New York, N. Y., awarded contract for manufacturing building for General Chemical Co.

N. J., Trenton—Stokes Rubber Co. awarded contract for two-story, 100x110-ft. manufacturing building to SCOTT & DAY. Estimated cost, $12,500.

Penn., Harrisburg—Blough Manufacturing Co., Riley and Fulton St. awarded contract for four-story factory to J. POMRAINING, 1918 North Second St., Harrisburg, at $10,000.

Penn., Lancaster—Contract for warehouse for David Miller awarded to I. M. WINTER, 45 South Queen St., Lancaster. Estimated cost, $10,000.

Penn., Manayunk—A. T. Baker Co., Main and Carson St. awarded contract for factory to BARCLAY, WHITE & CO., Perry Bldg., Manayunk, at $10,000.

Penn., Marcus Hook—Contract for two buildings for Benzol Products Co. awarded to F. W. VAN LOON, Denckla Bldg., Philadelphia. Estimated cost, $45,000.

Penn., Philadelphia—A. L. CARHART, at $16,000, awarded contract for addition to plant of Barrett Manufacturing Co., Margaretta and Bermuda St.

Penn., Philadelphia—CHARLES COOPER, Philadelphia, at about $35,000, awarded contract for three-story, 100x100-ft. ice cream factory at 3333 Ludlow St. for Supplee Alderney Dairies Co. Noted Nov. 25 and Dec. 2.

Penn., Philadelphia—Contract awarded by Philadelphia Steel and Forge Co. to BELMONT IRON WORKS for factory buildings at Milnor and Bleigh St. Estimated cost, $10,000.

Penn., Pittsburgh—Contract for three-story addition and alterations to ice plant of Consolidated Ice Co., 13th and Pike St. awarded to NICOLA BLDG. CO., Farmers Bank Bldg. Estimated cost, $25,000.

Penn., Pittsburgh—Contract for addition to plant of Pittsburgh Gage and Supply Co., 13th and Liberty St. awarded to L. H. KREUSLER, 33d and Penn Ave., Pittsburgh. Estimated cost, $15,000. Noted Dec. 2.

Del., Wilmington—Contract for factory buildings for Harlan & Hollingsworth Co. awarded to A. HAVENS & CO., Philadelphia, Penn. Estimated cost, $80,000.

Md., Baltimore—GEORGE REPP, 316 Stinson St., Baltimore, awarded contract for addition to warehouse of Mergenthaler & Co., 116 Hollingsworth St. Estimated cost, $10,000.

Va., Newport News—Contract for building for construction of hydroplanes and hydro-aëroplanes for Atlantic Coast Experimental Association awarded to HARWOOD & MOSS, Newport News. Estimated cost, $10,000.

W. Va., Warwood—Contracts for building for manufacture of sprinklers for Merchant & Evans Co., Philadelphia, Penn., awarded as follows: C. H. SEABRIGHT & CO., Wheeling, foundation; J. E. MOSS IRON WORKS, Wheeling, structural steel; JOHN H. MURPHY CO., Warwood, carpenter work.

Ga., Atlanta—Contract awarded for one-story warehouse at Milton Ave. and Belt Line R.R. to R. D. COLE, by Atlanta & West Point R.R. Estimated cost, $10,000.

Ga., Atlanta—Contract for building for Goodyear Tire and Rubber Co., Akron, Ohio, awarded to MACKLE CONSTRUCTION CO., Atlanta. Estimated cost, $18,000.

Ala., Birmingham—Contract for warehouse for Harris Transfer and Warehouse Co. awarded to EVANS BROS. CONSTRUCTION CO., Birmingham. Estimated cost, $50,000. Noted Nov. 11.

Tenn., Chattanooga—(Official)—Marion Extract Co., Marion, Va., will construct by day labor a plant to manufacture tannic acid from chestnut oak at Chattanooga. Estimated cost, $150,000. Noted Dec. 2.

Ky., Louisville—Kentucky Distillers and Warehouse Co. will remodel three buildings for warehouses by day labor. Estimated cost, $20,000. J. P. Hanley, Hamilton and Mellwood St., Secy. Noted Nov. 18.

Ky., Louisville—Contract for packing plant for C. F. Vissman & Co. awarded to G. H. ROMMEL CO., 639 Campbell St., Louisville. Estimated cost, $15,000. Noted Dec. 9.

Ohio, Canton—(Official)—Globe Motor Car Co. awarded contract for steel work on four-story, 60x200-ft. salesroom and garage to CANTON BRIDGE CO., Canton. Estimated cost, $80,000. Noted Dec. 2.

Ohio, Cleveland—Contract awarded to WILLIAM MOORE CO., 1278 West Fourth St., Cleveland, for factory at 3038 Cedar Rd. for F. L. Henderson. Estimated cost, $25,000.

Ohio, Cleveland—Contract for two-story addition to plant of Cleveland Steel Barrel Co., 9612 Meech Ave., awarded to S. W. EMERSON CONSTRUCTION CO., Engineers Bldg., Cleveland. Estimated cost, $17,000.

Ohio, Cleveland—Contract for grain warehouse at East 131st St. and Erie R.R. for Sheets Bros. Elevator Co. awarded to GEORGE D. BARRIBAL, Miles Ave., Cleveland. Estimated cost, $45,000. Noted Nov. 25.

Ohio, Cleveland—Contract for four-story factory building for D. O. Summers Cleaning Co. awarded to FRED LINDHORST & SONS. Estimated cost, $50,000.

Ohio, Cleveland—Winton Motor Carriage Co. awarded contract for one-story, 80x300-ft. addition to plant on Berea Rd. to BOLTON-PRATT CONSTRUCTION CO., Columbia Bldg., Cleveland. Noted Dec. 2.

Ohio, Dayton—Contract for garage at Third and Kenton St. for W. F. Stark awarded to STRUCTURAL CONCRETE CO., 751 Reibold Bldg., Dayton. Estimated cost, $30,000.

Ohio, Euclid—White Automobile Co., Cleveland, awarded contract for factory to W. I. THOMPSON & SON, 6110 Euclid Ave., Cleveland. Noted Dec. 2.

Ohio, Toledo—Contract for press house and agitator house for Paragon Refining Co., Front St., awarded to J. COMTE, 666 Oswald St., Toledo. Estimated cost, $25,000.

Ind., Ft. Wayne—M. IRMSCHER, 2103 Forest Park Blvd., Ft. Wayne, awarded contract for garage and commercial building for Aaron Shive, 2832 Thompson Ave. Estimated cost, $30,000.

Ind., Indianapolis—Contract for grain warehouse for F. E. Janes Realty Co., 522 Board of Trade Bldg., awarded to HALL-CURRY CONSTRUCTION CO., 807 Bd. of Trade Bldg., Indianapolis. Estimated cost, $40,000.

Mich., Marquette—Contract for plant for Nufer Cedar Co. awarded to FOSTER CONSTRUCTION CO., Milwaukee, Wis. Noted Dec. 2.

Ill., Chicago—Contract for two-story, 100x150-ft. factory for Chicago Nut Co., 619 West Jackson Blvd. awarded to CHANEY ARCHIBALD CO., 189 West Madison St., Chicago. Estimated cost, $40,000. Noted Dec. 2.

Ill., Chicago—E. W. SPROUL CO., 1120 West 35th St., Chicago, awarded general contract for warehouse for General Fire Extinguisher Co. Estimated cost, $60,000. Noted Nov. 18.

Ill., Chicago—Ogden Auto Sales and Garage Co. awarded contract for garage to CALIFORNIA CUT STONE CO., 2136 South Sawyer Ave., Chicago, at $13,500. J. Dvorak, 1909 South Lawndale Ave., Pres.

Wis., Ladysmith—Contract for four-story, 60x132-ft. factory building for A. W. Schram Manufacturing Co. awarded to E. POLLEY, Oshkosh.

Iowa, Burlington—Chicago, Burlington & Quincy R.R. Co. awarded contract for grain drier to H. A. BECK, 177 Mt. Pleasant St., Burlington, at $10,000. T. E. Calvert, Chicago, Ill., Ch. Engr.

Minn., Minneapolis—R. A. Jacobson, 699 Madison St., will build a three-story, 62x142-ft. warehouse by day labor.

Minn., St. Paul—Contract for factory for Milton Dairy Co., West Ninth St., awarded to W. J. HOY CO., St. Paul. Estimated cost, $25,000.

Kan., Wichita—Contract for warehouse for Rumley Products Co. awarded to VEITER & WENZEL, Wichita, at $10,000. Noted Nov. 11.

Neb., Lehigh—F. L. Vlach and J. J. Tesar awarded contract for garage to T. EASTERGARD, North Bend, Neb., at $10,000.

Mo., Hannibal—Hannibal Wire Fabric Co. will build factory by day labor. Estimated cost, $35,000. Albert Andris, Supt. of Constr. Noted Sept. 23.

Mo., Kansas City—Contract for garage for A. H. Jennings & Son, 1809 North Seventh St. awarded to J. E. ANDERSON & SON, 713 Minnesota Ave., Kansas City. Estimated cost, $20,000.

Mo., Kansas City—W. R. Nelson Estate, 17th and Grand Ave. awarded contract for garage to W. F. JACKSON, Kansas City, at $19,000.

Mo., St. Louis—Contract for two-story, 61x122-ft. factory for A. W. Swebder, 823 South 10th St., awarded to W. J. HOHAN, La Salle Bldg., St. Louis.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., Hornell—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 19, for U. S. post office at Hornell.

N. Y., Waterloo—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 21, for U. S. post office at Waterloo.

N. J., Hackensack—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 17, for U. S. post office at Hackensack.

W. Va., Wheeling—Lock Gates—Bids will be received at U. S. Engineer Office, Wheeling District, Wheeling, until 11 a.m., Jan. 14, for steel lock gates for Dam No. 14, Ohio River. (See Adv.)

Fla., Pensacola—Building—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Jan. 8, for remodeling building No. 52 at Navy Aeronautic Station, Pensacola.

Ky., Ashland—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 24, for U. S. post office at Ashland.

Minn., Anoka—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 18, for U. S. post office at Anoka.

Mo., St. Louis—Coal—Bids will be received at U. S. Engineer Office, Custom House, St. Louis, until 11 a.m., Dec. 29, for furnishing 30,000 tons of coal.

Colo., Denver—Reclamation—Western Division of U. S. Reclamation Service will ask Congress for an appropriation of $9,200,000 to complete 28 western projects now being constructed. Budget of S. B. Williamson, Ch. of Western Division, for above appropriation approved by F. T. Lane, Secy. of Interior.

Panama—Metal Supplies—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 29, for furnishing metal supplies.

Panama—Miscellaneous Supplies—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Dec. 22, for furnishing miscellaneous supplies.

Bids In and Contracts Awarded

Conn., Greenwich—Post Office—Bids were received Dec. 10 for U. S. post office at Greenwich, (a) limestone, (b) sandstone, as follows: Frymier & Hanna, New York, N. Y., (a) $66,769, (b) $68,269; E. T. Abbott Construction Co., New York, N. Y., (a) $66,750, (b) $69,800; Joseph Christiano, Greenwich, (a) $67,992, (b) $69,992. Noted Nov. 4.

N. Y., New York—(Borough of Brooklyn)—Dredging—Bids were received Dec. 11 for dredging at Navy Yard, New York, as follows: P. Sanford Ross, Inc., Jersey City, N. J., at 26c. per cu.yd.; Coastwise Dredging Co., Norfolk, Va., at 25⅞c. per cu.yd.; Morris & Cummings, New York, at 29½c. per cu.yd. Noted Nov. 18.

Md., Indian Head—Extension to Pulping and Poaching House—Contract for extension to pulping and poaching house awarded to JOHN H. NOLAN CONSTRUCTION CO., Washington, D. C., at $7,074. Noted Nov. 11 and Dec. 2.

D. C., Washington—Sewer Work—CHARLES H. TOMPKINS CO., Washington, at $2,008, awarded contract for Petworth sewer; HARPER & VOIGT CO., Washington, at $15,145, awarded contract for Kenilworth sewer. Noted Nov. 25 and Dec. 2.

Fla., Key West—Officers' Quarters—HENRY MONK, Pensacola, at $14,350, awarded contract for two officers' quarters at naval station, Key West. Noted Oct. 21.

Tex., Brenham—Post Office—Contract for U. S. post office at Brenham awarded to W. G. CARTER CO., Chicago, Ill., at $44,830. Noted Oct. 21 and Dec. 2.

Tex., Ft. Bliss—Heating System—Contract for heating system in 13 officers' quarters at Ft. Bliss awarded to W. S. KING, Lonoke, Ark., at $9,090. Noted Oct. 21.

Tex., Navasota—Post Office—Contract for U. S. post office at Navasota awarded to ALGERNON BLAIR, Montgomery, Ala., at $41,836. Noted Oct. 21 and Dec. 2.

Colo., Ft. Logan—Pump House—Contract for pump house and pump awarded by U. S. Quartermaster to H. T. WATERMAN, 17th and Wynkoop St., Denver, at $4,450.

Wash., Meadow Creek—Clearing—Lowest bids received Dec. 1 for clearing reservoir site at Lake Keechelus were as follows: M. P. Zindorf, Seattle, $178,000; Harrington-Peters Co., Seattle, $129,000; Maxham & Maxham, Tacoma, $168,000. Noted Nov. 4.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., New York—(Borough of Brooklyn)—(Official)—Dredging—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., North River, Manhattan, until noon, Dec. 23, for dredging in slip at foot of 28th St. Noted Dec. 2.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., North River, until noon, Dec. 20, for dredging in boroughs of Manhattan, Brooklyn, Queens, Bronx and Richmond.

La., Jennings—Irrigation—William Bradford, Alexandria, interested in project to irrigate rice fields by constructing canal from Red River through Jefferson Davis Parish. Estimated cost, $2,000,000.

Tenn., Dyersburg—Drainage—County Court of Dyersburg inevsigating project to drain district between Gibson County line and Obian River. Estimated cost, $200,000.

Ky., Louisville—Drainage—Fiscal Court considering drainage project involving 16,000 acres of swamp land in southern part of county.

Ky., Morganfield—Ditch—Bids will be received by Drainage Commissioners of Union County, until 1 p.m., Dec. 30, for constructing Dennis O'Nan Public Ditch. Norman R. Orcutt, Morganfield, Ch. Engr. Noted Aug. 5.

Ky., Morganfield—Drainage—Surveys being made for H. O. Roberts Drainage Ditch. Estimated cost, $43,000. Norman R. Orcutt, Morganfield, Ch. Engr.

Ind., Hartford City—(Official)—Ditch—Bids will be received by Frank P. Wallace, Drainage Comr., until 2 p.m., Dec. 28, for constructing Delilan Hineker Ditch, Monroe and Washington Townships.

Ind., Huntington—Bids will be received by Andrew Kilty, Constr. Comr., until Jan. 9, for improving ditch in Salamonie Township.

Mich., Davison—Drain—Bids will be received by I. H. Reid, County Drain Comr., until 9 a.m., Dec. 17, for constructing White Drain, Davison Township.

Mich., Macon—Drainage—Contract for middle branch of Macon Drain will be awarded about Apr. 1. Estimated cost, between $40,000 and $50,000. D. S. Sullivan, County Drain Comr. Noted Dec. 2.

Mich., Monroe—Drainage—Contract for Swamp Raisin Drain will be awarded about Apr. 1. D. S. Sullivan, County Drain Comr.

Ill., Belleville—Drainage—Press reports state that drainage district will be organized for improving Richmond Creek. Estimated cost, $150,000. G. A. Kloess, Chn. of Bd. of Trustees.

Wis., Racine—Dredging—City plans to dredge river during 1916. P. H. Connolly, City Engr.

Iowa, Spirit Lake—Drainage—Bids will be received by Board of Supervisors of Dickinson County until 1 p.m., Dec. 22, for tile drain in Drainage District No. 34, Dickinson County. John S. Blow, County Audr.

Minn., Anoka—Drainage—County will award contract for draining Coon Creek, eight miles, about May. Estimated cost, $45,000. W. L. Ridge, Drainage Engr. Noted Dec. 2.

Minn., Benson—Ditches—County plans to build five ditches.

Minn., Mankato—Ditch—Bids will be received by County Commissioners until Dec. 18 for constructing County Ditch No. 41.

Minn., Montevideo—Ditch—County Commissioners will soon award contract for Drainage Ditch No. 16. Estimated cost, $100,000. J. J. Stennes, County Audr.

Minn., Montevideo—Ditches—Contracts will be awarded some time in January for Ditches Nos. 21, 22 and 23. Estimated cost, $10,000, $175,000 and $20,000, respectively.

Minn., Pine City—Ditch—Bids will be received by W. H. Hamlin, County Audr., until Dec. 23, for constructing Ditch No. 4. Estimated cost, $9,870.

N. D., Fargo—Ditches—Contract for two ditches through portion of Kenyon and Noble Townships to Red River will be awarded early next year. Estimated cost, $30,000 each. F. Crabbe, Fargo, Engr. Noted Oct. 7 and 21.

Mont., Billings—Irrigation—U. S. Reclamation Service approved plans of Big Horn Cañon Irrigation and Power Co. for 400-ft. dam. Estimated cost, $175,000.

Mo., Birmingham—Drainage—Contract will be let some time in January or February by Board of Supervisors of Birmingham Drainage District for 10.8 mi. of levee work for developing about 5,400 acres of land. Estimated cost, $335,400. J. H. Powell, 312 Reliance Bldg., Kansas City, Mo., Secy. Brooks & Jacoby, 512 Shukert Bldg., Kansas City, Mo., Engr.

Tex., Harlingen—Irrigation—Bids will be received by Board of Directors of Cameron County Irrigation District No. 1 until Dec. 30 for extending canal, about 411,900 cu.yd. of excavation. Noted Oct. 14.

Tex., Houston—Dredging—See item under "Miscellaneous."

Idaho, Montour—Tunnel—Mannry Boise Co., Boise, at $44,250, submitted only bid for concrete tunnel for Emmett Irrigation District. New bids will be received. Noted Nov. 18.

Idaho, Twin Falls—Irrigation—Twin Falls Land and Water Co. plans to reclaim about 699 acres in Bruneau tract in Owyhee and Twin Falls Counties. Estimated cost, $30,000,000.

Wash., Sequim—Irrigation—Bids will soon be received by Highland Irrigation District Commissioners for seven miles of ditches. Estimated cost, $25,000.

Ore., Astoria—Reclamation—City Council considering creation of reclamation district in west end of city. Estimated cost, $142,795.

Ore., Klamath Falls—Irrigation—Plans being prepared for Yainax Irrigation project to include approximately 2,135 acres. Estimated cost, $75,000. H. W. Hincks, Indian Reclamation Service, Astoria, Engr.

Calif., Redding—Irrigation—Plans being considered by Anderson Cottonwood Irrigation District for bond issue for $400,000 for irrigation.

Calif., San Joaquin—(Official)—Reservoir—All bids received Dec. 6 for Woodward reservoir for South San Joaquin Irrigation District rejected. New bids will be received until 10 a.m., Jan. 3. C. A. Proudfit, Monteca, Secy. Noted Nov. 18 and Dec. 2.

Bids In and Contracts Awarded

Ky., Calhoun—Ditch—Contract for excavating ditch in McLean County awarded to J. N. FORGY DREDGE CO., Owensboro, at $25,000.

Ohio, Kenton—Drainage—Contract for Upper Scotia Drainage and Conservation District, Hardin County, to include about 25,000 acres, awarded to ELI PUGH and JAMES POLING, at $1,310,000. Noted Sept. 10.

Ind., Plymouth—Ditch—Contracts for ditch awarded as follows: YODER & SCHWARTZ, Nappanee, at $8,275, for dredge portion of Jesse McKesson lateral ditch; WALTER HYGEMA, Nappanee, at $3,499, for tile and open shovel portion of main ditch; JESSE McKESSON, Teegarden, at $625, for McKesson lateral.

Mich., Ithaca—Drain—Contract for excavating, clearing right-of-way, etc., for County Drain No. 110 and branches, awarded to A. S. GIBSON, Ithaca, at $2.34 per cu.yd.

Wis., Bristol—Drainage—T. C. Froemming, 1288 Humboldt Ave., Milwaukee, at $14,282, submitted lowest bid for drainage ditch in Bristol Drainage District. W. E. O'Brien, Kenosha, Engr. Noted Oct. 21.

Wis., Necedah—(Official—Ditches—P. Brandt & Son, Finley, at 8c. per cu.yd., submitted lowest bid for constructing new ditches and deepening and widening old ones, about 820,000 cu.yd. excavation, for Little Yellow Drainage District. A. C. Willard, Secy.

Iowa, Des Moines—(Official)—Ditch and Bulkhead—Contract for Drainage Ditch No. 16, Webster Township, and bulkhead, awarded to EMPIRE CONSTRUCTION CO., Des Moines, at $12,680. Noted Dec. 2.

Iowa, Des Moines—(Official)—Ditch and Bulkhead—Contract for Drainage Ditch No. 17, Lincoln and Crocker Townships, and bulkhead, awarded to J. C. ANDERSON, Marshalltown, at $30,954. Noted Dec. 2.

Iowa, Mason City—(Official)—Contract for County Ditch No. 29 awarded to HAWKEYE CEMENT TILE CO., Mason City. Noted Nov. 25.

Minn., Anoka—Ditch—Contract for repairing County Ditch No. 32 awarded to K. C. RICHARDSON, at $12,741.

Minn., Grand Rapids—Ditch—Contract for Judical Ditch No. 3, west of Deer River, awarded to P. SEASTRAND, Cambridge. Estimated cost, $104,000.

Mo., Carrollton—Drainage—Contract to construct 12,000 yd. of embankment awarded to J. O. MOORE, Noborne. Carl Weighert, Drainage Comr.

Utah, Corinne—Drainage—Contract for drainage project near Corinne, Boxelder County, awarded to J. P. O'NEILL CONSTRUTION CO. Estimated cost, $175,000.

Calif., Modesto—Irrigation—Contract for nine concrete drops for Modesto Irrigation District awarded to G. J. ULRICH, Modesto, at $19,340. Noted Dec. 2.

Calif., Richmond—Canal Improvements.—RICHMOND DREDGING CO., Richmond, at $95,845, awarded contract for improving Canal Subdivision.

MISCELLANEOUS

Proposed Work

N. Y., Buffalo—Docks—Donner Steel Co., Inc., recently organized with $5,000,000, capital stock, has taken over plant of New York State Steel Co. and will improve same. Improvements include ore docks along Buffalo River, installation of ore handling equipment and by-product coking plant.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bulkhead—Bids will be received by L. H. Pounds, Borough Pres., Room 2, Borough Hall, until 11 a.m., Dec. 20, for furnishing labor and material to build pile and timber bulkhead at municipal bath building, Coney Island.

N. Y., New York—(Borough of Manhattan)—(Official)—Market—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Dec. 20, for constructing market under Queensboro bridge, 59th and 60th St., First and Ave A; also for installing drainage and water systems in said market.

N. Y., New York—(Borough of Manhattan)—(Official)—Market—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Dec. 23, for constructing public market under Third Ave. bridge; 130th St. and Third Ave.

N. Y., New York—(Borough of Manhattan)—Stadium—Bids will soon be received for stadium for New York Federal League Club. Estimated cost, $500,000. C. B. Comstock, 110 West 40th St., Arch.

N. Y., Syracuse—Retaining Wall—Board of Alderman defeated proposition to issue $75,000 bonds for retaining wall along bank of Onondaga Creek. Noted Oct. 14 and Nov. 18.

Penn., Philadelphia—Electric Hoists—Bids will be received by John Meigs, Dir. of Dept. of Wharves, Docks and Ferries, until Dec. 20, for electric hoists for Southwark piers, Delaware River, between Catharine and Christian St.

Va., Norfolk—Docks, etc.—Norfolk Storage Co., Inc., recently incorporated, has purchased a site of 19 acres at Burtons Point and will dredge river, and build docks and sheds. C. S. Powell, New York, N. Y., Pres.

Fla., Miami—Harbor Improvement—Bids will be received by W. B. Moore, City Clk., until noon, Dec. 22, for excavating a slip, a turning basin and channel across Biscayne Bay, also building a concrete dock. Separate proposals for dock.

Ala., Mobile—Elevated Railway—Magnolia Compress and Warehouse Co. has had plans prepared for system of elevated railways between warehouses and water front.

La., New Orleans—(Official)—Grain Elevator Equipment—Bids will be received by E. M. Loeb, Pres., Bd. of Comrs. of Port of New Orleans, Suite 200, New Orleans Court Bldg., until 8 p.m., Dec. 29, for furnishing equipment for public grain elevator in New Orleans. (See adv.)

Ohio, Columbus—(Official)—Elimination of Grade Crossings—We have been informed by R. Trimble, Ch. Engr. of M. of W., Pennsylvania Lines West of Pittsburgh, that it will be some time before bids will be received for elimination of grade crossings in north side of Columbus. Noted Dec. 2.

Ohio, Painesville—Monument—Ohio Mausoleum Co., Gallon, will build monument at Painesville. Estimated cost, $50,000. T. Robert Moore, Painesville, interested.

Ind., Miller—Coney Island—Press reports state that New York capitalists plan to establish a Coney Island at Miller Beach. Estimated cost, $500,000.

Mich., Detroit—Subway—Plans prepared for subway for Woodward Ave. cars from Grand Circus Park to river front. Estimated cost, $1,500,000.

Ill., Chicago—Machinery—Bids will be received by J. D. Robertson, Comr. of Health, until Dec. 18, for elevating and conveying machinery for new Mill Building at municipal reduction plant, 39th and Iron St.

Minn., St. Paul—Channel—Project being considered to construct 6-ft. channel from St. Paul to mouth of Missouri River. Mississippi River Improvement Association, interested.

Mo., St. Louis—River Terminals—Plans prepared by J. L. Wees, 419 Commercial Bldg., for seven-story, 100x250-ft. river terminal and warehouse for St. Louis River Front and Dock Association. Estimated cost, $250,000.

Tex., Galveston—Dry Dock—Dry dock, marine railway and ship building and repair plant will be constructed by Galveston Dry Dock and Construction Co. C. N. Growell, Mgr. Noted Nov. 11.

Tex., Houston—Wharf and Warehouse—City Council has appropriated $300,000 for work on Houston Turning Basin. Works includes dredging for wharf, building wharf and warehouse, etc.

Ariz., Tucson—Subway—Bids will be received by C. K. Clarke, City Mgr., until Dec. 17, for subway under railway tracks at end of Congress St. Estimated cost, $70,000. Noted Oct. 14 and Nov. 18.

Wash., Seattle—Tunnel—Plans prepared by A. H. Dimock, City Engr., for reinforced-concrete tunnel at entrance to new courthouse and city hall. Estimated cost, $30,000. Noted Nov. 25.

Ore., Portland—Tunnel—Press reports state Oregon-Washington R.R. and Navigation Co. will reline tunnel with concrete from Mock's Bottom to Columbia Slough. Estimated cost, $100,000. J. K. Holman, Portland, Ch. Engr.

Calif., Santa Monica—Bath House—Santa Monica Bath House Corporation will build three-story, 95x100-ft. bath house. Estimated cost, $25,000.

MISCELLANEOUS

Bids In and Contracts Awarded

Mass., Boston—Bulkhead—BAY STATE DREDGING AND CONTRACTING CO., Boston, at $82,830, awarded contract for bulkhead and 170,00 cu.yd. dredging and placing filling beneath and around bulkhead, Contract No. 47. Noted Nov. 18 and Dec. 2.

N. Y., New York—(Borough of Bronx)—Track Installation—Contract for track installation on White Plains Rd. and extension of existing subway awarded to COAST AND LAKE CONTRACTING CORPORATION, 41 Broad St., New York, at $53,930. Noted Dec. 2.

N. Y., New York—(Borough of Brooklyn)—(Official)—P. P. Farley, 103 Park Ave., New York, at $5,335, submitted lowest bid for steel tank and fittings to be used for storage of liquid asphalt at municipal asphalt plant, 7th St. basin, Gowanus Canal. Noted Dec. 2.

N. Y., New York—(Borough of Manhattan)—Pier Shed—Baltimore & Ohio R.R. Co. awarded contract for Pier Shed No. 21, East River, to MILLIKEN BROS., 111 Broadway, New York.

N. J., Ventnor—(Atlantic City post office)—Jetties—Contract for jetties from Cambridge to Portland Ave. awarded to EUGENE BOEHM, at $4.22 per ft. Noted Dec. 2.

Penn., Philadelphia—Bath House—Contract for bath house for Public Baths Association of Philadelphia awarded to FRANKE E. WALLACE, 1220 Chancellor St., Philadelphia. Estimated cost, $20,000.

Penn., Philadelphia—(Official)—Elevated Railway Work—Contract for concrete column foundations and piers for about 4,000 lin.ft. of two-track elevated railway in Frankford Ave. from Unity to Dyre St. awarded to EDWIN H. VARE, 604 Lincoln Bldg., Philadelphia, at $17,700. Noted Nox. 18.

Penn., Philadelphia—Park Improvements—City awarded contract for park improvements to C. A. CONAN, 1345 Arch St., Philadelphia. M. L. Cooke, Dir., Dept. of Pub. Wks.

Md., Baltimore—Coal Pier—Baltimore & Ohio R.R. Co. awarded contract for foundation and piling for coal pier at Curtis Bay, Baltimore, to PHOENIX CONSTRUCTION CO., 41 Park Row, New York, N. Y. Estimated cost, $1,500,000. Noted Sept. 30 and Dec. 2.

Miss., Waveland—(Official)—Seawall—Contract for concrete seawall and filling on beach at Waveland awarded to MASSIE & CO., 218 Saratoga St., New Orleans, La., at $10.74 per lin.ft. Noted Oct. 28.

Ohio, Cleveland—Pier—AMERICAN CONSTRUCTION CO., Cleveland, awarded contract for repairs to pier protections. Noted Nov. 25.

Ill., Chicago—Engine House—Contract for two-story brick engine house awarded to WARNER CONSTRUCTION CO. at about $19,000. Noted Dec. 2.

Calif., Martinez—Pipe Line—Shell Oil Co., Martinez, awarded contract for grading work for pipe line to PRICE CONSTRUCTION CO. and O'BRIEN BROS., about 130,000 cu.yd. excavation. Estimated cost, $40,000. Noted Oct. 21.

Calif., Sacramento—Levee—F. E. Frey, at $10,312, submitted lowest bid for levee work near Sutterville.

Calif., Sacramento—Levee Work—Contract for levee work awarded to A. TEICHERT & SON, Ochsner Bldg., at $11,250.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

Proposed Work

Vt., White River Junction—Plans approved by Boston & Maine R.R. and Boston & Central Vermont R.R. for station at White River Junction. Estimated cost, $55,000.

Mass., Boston—Plans being prepared by S. S. Levy, 35 Court St., Arch., for five-story hotel and loft building. Estimated cost, $50,000.

Mass., Dedham—Dedham Masonic Lodge has postponed building of temple until next spring. Estimated cost, $40,000. Noted Sept. 23.

Mass., Salem—Bids will be received until Dec. 23 by city for addition to Bowditch School. Estimated cost, $75,000. John M. Gray, 16 Arlington St., Boston, Arch. Noted Dec. 9.

N. Y., Baldwin—Citizens voted to build school. Estimated cost, $40,000. William Steele, interested.

N. Y., Bronxville—Plans being prepared by Bates & How, Arch., 542 Fifth Ave., New York, for motion picture, store and apartment building for Residence Co. of Lawrence Park. Estimated cost, $50,000.

N. Y., Gloversville—City National Bank will build bank. Estimated cost, $80,000. Mowbray & Uffinger, 56 Liberty St., New York, Arch.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by John A. Kingsbury, Comr., Dept. of Pub. Charities, Municipal Bldg. (Borough of Manhattan), until 10:30 a.m., Dec. 23, for alterations to and additional buildings at Greenpoint Hospital.

N. Y., New York—(Borough of Manhattan)—(Official)—Union Square Realty Corporation, 15 Broad St., plans to build 13-story, 50x100-ft. store and showroom building at 26 Union Sq. Estimated cost, $225,000. W. G. Pigueson, 59 Pearl St., Arch.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans prepared for two-story, 65x128-ft. building at 175th St. and Wadsworth Ave. for New York Telephone Co., 15 Dey St. Estimated cost, $93,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will soon be received for seven-story, 100x150-ft. assembly building for Y. W. C. A. at Lenox Ave. and 124th St. Estimated cost, $250,000. Louis E. Jallade, 37 Liberty St., Arch.

N. Y., Syracuse—University of Syracuse plans to build College of Agriculture. Estimated cost, $250,000.

N. J., Paterson—Bids will be received until 4 p.m., Dec. 20, by J. E. Dunphy, Secy. of Bd. of Education, City Hall, for constructing Public School No. 10.

Penn., Allentown—Bids recently received for six-story addition to Y. M. C. A. Bldg. rejected. New bids will be received. Ruhe & Lange, Allentown, Arch. Estimated cost, $100,000. Noted Dec. 2.

Penn., Butler—Movement has been started in Mercer County to construct hospital for insane. Estimated cost, $300,000. S. C. Moore, Comr.

Penn., Chester—Plans being prepared by E. A. Wilson, Arch., 1208 Chestnut St., Philadelphia, for three-story hotel.

Penn., Eddystone—Bids will soon be received by Henon & Boyle, Arch., 10 South 18th St., Philadelphia, for seven-story, 50x120-ft. hotel for Remington Arms Co. Estimated cost, $175,000. Noted Dec. 2.

Penn., Lancaster—Plans being prepared by C. E. Urban, Arch., Woolworth Bldg., for three-story high school for Board of Education. Estimated cost, $150,000.

Penn., York—Plans being prepared by Gemmill & Billmeyer, Arch., for four-story club house for Loyal Order of Moose. Estimated cost, $60,000.

Md., Baltimore—(Official)—Bids will be received about Jan. 1 for four-story office building on German St. for Immediate Benefit Life Insurance Co. Estimated cost, $70,000 Louis Levi, 1408 Munsey Bldg., Arch. Noted Dec. 9.

D. C., Washington—Plans being prepared for new art building for Smithsonian Institute. Estimated cost, $1,000,000.

D. C., Washington—Contract will be awarded about Feb. 1 by Thomas W. Lamb, Arch., for Rialto Building Co. Estimated cost, $150,000. Noted Dec. 2.

D. C., Washington—Plans prepared for one-story motion picture theater for Crandall Theater Co. Estimated cost, $50,000. A. P. Clark, Jr., 816 14th St., N. W., Washington, Arch.

Va., Norfolk—Bids will soon be received for six-story, 26x104-ft. office building on City Hall Ave. J. W. Lee, Norfolk, Arch.

W. Va., Wheeling—Citizens of Richland District voted $85,000 bonds for schools. R. A. Alexander, Pres. of Bd. of Education.

Ga., Macon—Plans being prepared for hotel on Cherry St. for J. S. Shingler, Ashburn. Estimated cost, $120,000.

Ga., Savannah—Plans being prepared for auditorium for city. H. Wallin, Arch.

Ga., Tifton—City plans to hold election to vote on $100,000 bonds for city hall.

Fla., Ft. Pierce—Citizens of Special Tax District No. 6 voted $40,000 bonds for school.

Fla., Miami—Bids will be received about Dec. 30 for eight-story, 40x100-ft. hotel for McAllister Hotel Co. Frohlin & De Garmo, Miami, Arch. Noted Nov. 18.

Ala., Birmingham—Plans prepared by William T. Warren, Arch., for three-story Science Hall for Birmingham College.

Ala., Mobile—Commissioners of Mobile County School have recommended election to Board of Revenue and Road Commissioners on Jan. 18 to vote on $150,000 bonds for county schools.

Ala., Union Springs—New freight and passenger station will be constructed by Birmingham & Southern R.R.

La., Jennings—Plans will be prepared by W. L. Stevens, Arch., Baton Rouge, for courthouse for Jefferson Davis Parish Police Jury. Estimated cost, $75,000. Noted Oct. 28.

Ky., Somerset—Press reports state that hotel will be constructed at Dry Ridge by syndicate composed of Georgetown, Dry Ridge and Lexington capitalists. Estimated cost, $100,000.

Ky., Winchester—R. P. Taylor is interested in plan to organize Clark County Unity Club to raise money to build a club house. Estimated cost, $50,000.

Ohio, Cleveland—Plans prepared for three-story, 50x185-ft. dormitory for Livingston Taylor. Estimated cost, $100,000. C. S. Schneider, 2248 Euclid Ave., Cleveland, Arch.

Ohio, Cleveland—Plans will be prepared by Franz C. Warner, Hippodrome Bldg., Cleveland, and E. D. Litchfield, New York, N. Y., Archs., for new building for girls at Andrews Institute. Estimated cost, $1,000,000.

Ohio, Cleveland—Plans prepared by S. H. West, Arch., 1030 Schofield Bldg., for three-story commercial building at St. Clair and Yale Ave. for Herman Stern, Cleveland. Estimated cost, $60,000.

Ohio, Cleveland—Plans being prepared by W. R. McCormack, Arch., Bd. of Education, Cleveland, for additions to Memorial, East Clark and Tremont Schools. Estimated cost, $100,000.

Ohio, Cleveland—Plans will be prepared by C. S. Schneider, Arch., 2248 Euclid Ave., for addition to Y. W. C. A., East 18th St. and Prospect Ave. Estimated cost, $60,000.

Ohio, Cleveland—Plans prepared by Hubbell & Benes, Arch., 4600 Euclid Ave., for exchange building on Euclid Ave. for Superior Realty Co., Erie Bldg. Estimated cost, $800,000. A. B. Smythe, interested.

Ohio, Cleveland—Plans being prepared by Ferguson-Flanigan Co., Arch., Vickers Bldg., for eight-story commercial building at St. Clair Ave. and Third St., for Walton Realty Co.

Ohio, Columbus—Bids will be received about Jan. 1 for 11-story hotel for Broadway County. Estimated cost, $400,000. J. H. Butler, Hotel Columbus, Mgr.

Ohio, Dayton—Plans being prepared by Frank Hill Smith, Arch., 1035 Reibold Bldg., Dayton, for ten-story, 50x178-ft. bank and office building for Dayton Savings and Trust Co. Estimated cost, $100,000.

Ohio, East Liverpool—East Liverpool Lodge No. 122, Loyal Order of Moose, plans to build lodge building.

Ohio, Ironton—Masons plan to build new temple. Estimated cost, $75,000.

Ohio, Oberlin—Press reports state that Oberlin College plans to build new theological seminary. About $100,000 available for this purpose.

Ohio, Olmsted Falls—Board of Education will award contract for high and grade school in about five weeks. Estimated cost, $50,000. F. R. Gallagher, Clk. Noted Dec. 9.

Ohio, Ravenna—Congregation of First Christian Church plans to build one-story, 76x104-ft. church and Sunday school. Estimated cost, $40,000. Richard Hollowell, Chn. of Bldg., Com.

Ohio, Wilmington—Charles Murphy plans to build opera house. Estimated cost, $100,000.

Ind., Brookston—Bids will be received early next year for high and grade school. Estimated cost, $40,000. Noted Nov. 11.

Ind., Delphi—Plans being prepared by Elmer E. Dunlap, 909 State Life Bldg., Indianapolis, for three-story courthouse for Carroll County. Estimated cost, $200,000. M. G. Haun, Audr.

Ind., Goshen—Plans being considered for nine-story hotel on site of Sherman Hotel at 233 North Michigan St.

Ind., Indianapolis—(Official)—Contract will soon be awarded for freight station for Pennsylvania R.R. Estimated cost, $150,000. Noted Dec. 2.

Ind., Portland—(Official)—Contract for three-story, 90x160-ft. courthouse for Jay County will be awarded in about two or three months. Estimated cost, $275,000. Frank Gillespie, County Clk. Noted Nov. 4 and Dec. 2.

Ind., Terre Haute—(Official)—Bids will be received some time in February for three-story McLain grade school. Estimated cost, $115,000. Herbert W. Foltz, 1456-60 Lemcke Annex, Indianapolis, Arch. Noted Dec. 9.

Mich., Detroit—Plans being prepared by Joseph P. Jogerst, Arch., 1401 Kresge Bldg., Detroit, for seven-story, 40x90-ft. hotel for S. Satovosky. Estimated cost, $100,000.

Mich., Detroit—Plans being prepared for six-story, 30x93-ft. hotel for Mack McKenzie. Smith & Kohner, 302 Free Press Bldg., Detroit, Arch.

Mich., Detroit—Plans prepared by O. C. Gottesleben, Arch., for 14-story hotel on Griswold St. for Tavern Hotel Co. M. J. Leod, Pres.

Mich., Detroit—Plans prepared by Albert Kahn, Arch., Detroit, for new library for University of Michigan. Estimated cost, $350,000.

Mich., Detroit—Citizens of Highland Park will vote on $275,000 bonds for new school.

Mich., Jackson—Contract will be awarded in about two months by Board of Education for three-story, 140x275-ft. high school. Estimated cost, $385,000. Noted Oct. 21 and Nov. 18.

Mich., Menominee—Rogers M. Andrews interested in construction of club house. Estimated cost, $40,000.

Mich., Monroe—Bids will soon be received by Harry J. Rill, Arch., 54 Buhl Blk., Detroit, for five-story, 150x200-ft. college for Sisters of Immaculate Heart of Mary.

Mich., Port Huron—Board of Education considering bond issue for $100,000 for new junior high school.

Ill., Chicago—Union League Club plans to build three-story addition to club house on Jackson Blvd. Estimated cost, $130,000. Holabird & Roche, Arch.

Ill., Ottawa—(Official)—Bids will be received next spring for Illinois Valley General Hospital. Estimated cost, $75,000. J. F. Richardson, Jr., Arch. Noted Dec. 3.

Ill., Quincy—Congregation of Baptist Church plans to build new edifice next spring. Estimated cost, $60,000.

Ill., Springfield—Plans for addition to Dubois School submitted to Board of Education by Harry J. Relger, Arch., 42 Ridgley Bank Bldg., for approval. Estimated cost, $75,000. Noted Nov. 4.

Ill., Tuscola—Bids will be received about Mar. 15 for two-story high school. Estimated cost between $125,000 and $150,000. C. C. Kazey, Secy. of Township High School Bd. Noted Dec. 9.

Wis., Mensha—Board of Education engaged Van Ryn and De Gelleke, Arch., Caswell Blk. to prepare plans for two-story addition to high school.

Wis., Milwaukee—Plans prepared by Holabird & Roche, Arch., Chicago, Ill., for two-story, 200x522-ft. arcade building on Grand Ave. A. J. Harvey, Cleveland, Ohio, interested.

Wis., Racine—Knights of Columbus plan to build club house. J. E. Henen, Arch., 74 Main St., Mem. of Bldg. Com.

Wis., Racine—Plans being prepared by A. A. Guilbert, Arch., Robinson Bldg., for auditorium and armory for city.

Iowa, Alton—Bids will be received by Board of Education until Dec. 21 for school. Buettler & Arnold, Arch.

Iowa, Atlantic—Y. M. C. A. plans to build two-story, 100x130-ft. building. Estimated cost, $100,000. W. H. Fuller, Chn. of Bldg. Con.

Iowa, Cedar Rapids—Campaign will be started next spring to build new Y. M. C. A. Estimated cost, $150,000.

Minn., Henderson—Bids will be received until Jan. 4 by Board of Commissioners of Sibley County for court house, jail and sheriff's residence. Estimated cost, $100,000.

Minn., Mound—Preliminary plans being prepared by F. E. Halden, Arch., 601 Kasota Bldg., Minneapolis, for two-story consolidated school. Estimated cost, $60,000. D. Wilkins, Secretary of Bd. of Education.

Kan., Emporia—College of Emporia plans to rebuild administration building recently destroyed by fire. Estimated cost, $100,000. W. A. White, Chn. of Bldg. Com.

Kan., Norton—Election will soon be held to vote on proposition to issue $40,000 bonds for school. F. M. Duvall, Clk., Bd. of Education.

Kan., Salina—Bids will be received about Feb. 1 for church for St. John's Lutheran Congregation. Estimated cost, $40,000. E. O. Brostrom, 300 Brent Bldg., Kansas City, Mo., Arch. Noted Dec. 9.

Neb., North Platte—Union Pacific Ry. Co. plans to rebuild station recently destroyed by fire. Estimated cost, $80,000.

Mo., St. Louis—(Official)—Bids will be received by Barnett, Haynes & Barnett, Arch., Century Bldg., until Jan. 15, for parish school for Catholic Cathedral of St. Louis. Estimated cost, $100,000. Noted Oct. 21 and Dec. 9.

Mo., St. Louis—Plans being prepared by J. M. Hirshstein, Arch., for three-story club house for Young Men's Hebrew Association.

Tex., Austin—Contract will soon be awarded for hotel for H. A. Wroe and associates. Estimated cost, $500,000. Noted Nov. 11.

Tex., Austin—Bids will be received by Kate Daffan, Supt., until noon, Dec. 23, for two-story hospital building at State Confederate Women's Home. Noted Oct. 14.

Tex., Corpus Christi—M. Donigan, owner of State Hotel, plans to improve same. Estimated cost, $80,000.

Tex., El Paso—Building will be constructed at Mills and Stanton St. by M. D. Roberts and William Banner. Estimated cost between $200,000 and $250,000.

Tex., Ft. Worth—George Clarke, Pres. of School Bd., has recommended bond issue for $225,000 for three schools.

Tex., Lubbock—Plans being prepared by Rose & Peterson, Arch., Kansas City, Kan., for three-story, 80x96-ft. courthouse for Lubbock County. Estimated cost, $100,000. Noted Oct. 7.

Tex., Port Arthur—Plans being prepared by William B. Ittner, Arch., Ninth and Locust St., St. Louis, Mo., for three-story school for Board of Education.

Tex., Savoy—Election will be held Dec. 18 by Board of Trustees of Savoy Independent School District to vote special tax for schools.

Tex., Seguin—Rock Hotel Co. will build hotel to cost $50,000. James A. Harley, interested.

Tex., Victoria—New building to replace one recently destroyed by fire will be constructed by Lady of Lourdes German Church. Estimated cost, $50,000.

(Continued on page 382)

PROGRESS ON DUAL SYSTEM CONTRACTS

INTERBOROUGH LINES

City Contracts

Sec.	Contractor	Limits	Contract Delivered	Time Expires	Amount of Bid	Per Cent. of Value of Work Completed	Item Published Engineering News
		Routes Nos. 43 and 26—Diagonal Station Connection					
1	Rapid Transit Subway Construction Co.	Connection between existing subway and Lexington Avenue and Steinway Lines	12- 3-14	4- 3-17	$3,097,312.50	38	Oct. 22, 1914
7	Rapid Transit Subway Construction Co.	Lexington Ave., 43d to 53d St.	8- 7-17	3 -7-17	1,915,164.50	36	June 25, 1914
8	Bradley Contracting Co.	Lexington Ave., 53d to 67th St.	7-21-11	10-21-15	3,369,484.20	95	Nov. 3, 1910
9	Patrick McGovern & Co.	Lexington Ave., 67th to 79th St.	2-13-12	9-21-15	1,961,997.00	100	Dec. 14, 1911
10	Bradley Contracting Co.	Lexington Ave., 79th to 93d St.	7-21-11	9-21-15	3,253,072.80	100	Nov. 3, 1910
11	Bradley Contracting Co.	Lexington Ave., 93d to 106th St.	7-21-11	9-21-15	3,132,195.05	100	Nov. 3, 1910
12	Oscar Daniels Company	Lexington Ave., 106th to 118th St.	9-13-11	9-13-15	2,825,740.74	99	Nov. 3, 1910
13	Assigned to McMullen, Snare & Triest.	Lexington Ave., 118th to 129th St.	11-17-11	11-17-15	4,071,416.50	85 2	Nov. 3, 1911
14	Arthur McMullen & Hoff Co.	Lexington Ave. & 129th St., Manhattan, to 137th St., The Bronx	7-23-12	11-13-15	3,889,775.05	100	June 16, 1912
15	Assigned to Rodgers & Hagerty, Inc.	Mott & Gerard Aves., 135th to 157th St.	11-17-11	11-17-15	3,820,129.75	97 7	Nov. 3, 1910
		Route No. 16—Jerome Avenue Extension					
1	Oscar Daniels Company	Jerome Ave., 157th to 182d St.	12-31-13	10- 3-15	1,077,978.00	97 8	Dec. 11, 1913
2	Cooper & Evans Company	Jerome Ave., 182d St. to Woodlawn Rd.	4- 3-14	10- 3-15	1,076,831.00	95 2	Feb. 19, 1914
		Route No. 18—White Plains Road Extension					
1	Oscar Daniels Company	Bronx Park East to White Plains Road and Burke Street	3 -24-14	2- 1-16	914,400.25	79 6	Feb. 19, 1914
2	Alfred P. Roth	White Plains Road, Burke Street to 241st Street	1-13-14	11-24-15	958,484.00	100	Dec. 4, 1913
		Routes Nos. 16 and 18—Station Finish, Jerome Avenue and White Plains Road Lines					
..	Altoria Realty & Const. Co.	Jerome Avenue and White Plains Road Lines	10-13-15	4-13-16	860,636.50		
		Routes Nos. 19 and 22—Southern Boulevard and Westchester Avenue Extension					
1	Richard Carvel Co., Inc.	138th St. & Southern Boulevard, Alexander Ave. to 147th St.	10-22-12	2-22-16	2,253,281.75	78 3	Sept. 26, 1912 H
1-A	Rodgers & Hagerty, Inc.	Southern Boulevard and Whitlock Ave., 1475th St. to Bancroft St.	12-31-13	6-30-16	2,253,159.25	77	Dec. 11, 1913
		Routes Nos. 4 and 38—Seventh Avenue-Lexington Avenue Subway					
1-A	Rapid Transit Subway Construction Co.	South Ferry to Battery Place and Greenwich Street	9- 4-14	4- 4-17	474,244.00	59	June 18, 1914
1	Rapid Transit Subway Construction Co.	Greenwich St., Battery Pl. to Vesey St.	6-19-14	3-19-17	2,121,077.25	42	Apr. 30, 1914
2	Degnon Contracting Co.	West Broadway, Vesey to Beach St.	3-13-14	3-13-17	3,059,522.00	51	Dec. 11, 1913
3	Degnon Contracting Co.	Varick St. & 7th Ave. Ext., Beach to Commerce Street	12-31-13	12-31-16	2,185,063.50	75	Nov. 20, 1913
4	U. S. Realty & Imp. Co.	Seventh Ave., Commerce to 16th St.	4-17-14	4-17-17	1,837,726.50	45	Mar. 12, 1914
5	U. S. Realty & Imp. Co.	Seventh Ave., 16th to 30th Street	12-31-13	12-31-16	2,401,306.75	68	Nov. 20, 1913
6	Rapid Transit Subway Construction Co.	Seventh Ave., 30th to 43d Street	2-24-14	2-24-17	2,292,943.50	60	Jan. 8, 1914
6-A	Holbrook, Cabot & Rollins Corporation	Seventh Ave., 43d to 45th Street	8- 6-14	5- 6-17	421,566.00	91	May 28, 1914
		Route No. 48—Park Place, William and Clark Street Subway					
1	Frederick L. Cranford, Inc.	Park Place and Beekman St., West Broadway to William St.	12- 7-14	4- 7-17	1,571,363.50	26	Oct. 22, 1914
2	Smith, Hauser & MacIsaac, Inc.	William St., Beekman St. to Old Slip	12- 7-14	4- 7-17	2,254,670.00	46	
3	Assigned to Flinn-O'Rourke Co., Inc.	Old Slip, Manhattan, to Clark Street, Brooklyn	8- 6-14	2- 6-18	6,469,916.25	19 3	June 4, 1914
		Route No. 12—Eastern Parkway, Brooklyn, Subway					
1	Cranford Company	Flatbush Ave. & St. Felix St., Fulton St. to Prospect Place	7-17-14	1-16-17	2,195,296.25	30	June 25, 1914
1-A	Cranford Company	Flatbush Ave., Prospect Place to Plaza	5- 4-14	11- 4-16	2,225,519.25	54	Apr. 9, 1914
2	Inter-Continental Const. Co.	Eastern Parkway, Prospect Park Plaza to Nostrand Ave.	6-15-15	4-15-17	2,744,263.00	6	May 6, 1915
3	Rodgers & Hagerty, Inc.	Eastern Parkway, Nostrand Ave. to Buffalo Ave.	9-25-15	5-25-17	2,170,652.50	...	Aug. 5, 1915
		Route No. 29—Nostrand Avenue, Brooklyn, Subway					
1	Newman & Carey Co.	Nostrand Ave., Eastern Parkway to Church Ave.	8-20-15	5-20-17	2,073,303.20	...	July 1, 1915
2	Dock Contractor Co.	Nostrand Ave., Church to Flatbush Ave	10- 8-15	7- 8-17	1,692,370.70	...	Aug. 19, 1915
		Routes Nos. 36 and 37—Woodside, Astoria and Corona Elevated Line					
1	Snare & Triest	Queensboro Bridge Plaza, Jackson Ave. & Diagonal Street	10- 7-13	4- 3-16	884,859.00	71	Aug. 28, 1913
2	Cooper & Evans Company	Second Ave., Beebe Ave. to Ditmas Ave.	3-11-13	9-11-14	860,743.50	100	Feb. 13, 1913
3	E. E. Smith Contr. Co.	Queens Boulevard & Roosevelt Ave., Van Dam St. to Alburtis Ave.	3-11-13	1- 7-13	2,063,588.00	98	Feb. 13, 1913
		Routes Nos. 36 and 37—Queensboro Subway					
3	Murphy Bros.	Storm drain, Queens Boulevard, Hill St. to Gosman Ave.	.....	.....	7,421.25	..	
		Routes Nos. 36 and 37 and 50—Station Finish, Queensboro Subway Extension and Astoria and Corona Lines					
1 & 3 and Route 50	Snare & Triest Co.	Queensboro Subway Extension and Corona Line	10- 4-15	4- 4-16	609,885.00	...	Oct. 7, 1915
2	Charles Meads & Co.	Astoria Line	10- 5-15	4- 5-16	268,102.50	...	Oct. 7, 1915
		Routes Nos. 36 and 37 and 50—Track Installation, Queensboro Subway Extension and Astoria and Corona Lines					
..	Thomas Crimmins Contracting Co.	Installation of Tracks	.....	.....	204,798.10	...	
		Route No. 26—Queensboro Subway					
..	Rapid Transit Subway Construction Co.	Madison Ave. & 42d St., Manhattan, to Davis St., Queens	4-14-14	6-15-15	383,910.75	100	Feb. 26, 1914
		Route No. 50—Queensboro Subway Extension					
..	Degnon Contracting Co.	Davis St. & Ely Ave., Van Alst Ave. to Queensboro Bridge Plaza	13-31-13	1- 7-16	557,856.50	93	
		Route No. 50—Station Finish, Queensboro Subway Extension					
..	Station Construction Co.	Station finish for Hunter's Pt. Ave. station	.....	.....	2,999.99	...	
		44th Street Duct Line					
..	E. C. Moore	Duct line in 44th St. for Queensboro Subway	.....	.....	34,005.90	...	Oct. 21, 1915

Company Contracts

		Third-Tracking Elevated Railroads in Manhattan and The Bronx					
	Terry & Tench Co., Inc., Snare & Triest Co., and T. A. Gillespie Co.	Addition Tracks on Second, Third and Ninth Avenue Elevated Lines	2-13-14	8-13-15	(Cost plus)	...	1557

NEW YORK MUNICIPAL LINES

City Contracts

1	F. L. Cranford, Inc.	Trinity Place & Church Street, Morris to Fulton Street	9-27-12	1-27-16	$1,222,269.20	93	Sept. 19, 1912
1-A	F. L. Cranford, Inc.	Church & Vesey Streets & Broadway, Fulton Street to Park Place	9-27-12	1-27-16	982,740.70	95	Sept. 19, 1912
2	Degnon Contracting Co.	Broadway, Park Place to Walker St.	2- 6-12	6- 6-15	2,355,828.50	99.3	Feb. 1, 1912
2-A	O'Rourke Eng. Const. Co.	Broadway, Walker to Howard Street	7-17-12	11-17-15	912,351.60	95	Apr. 11, 1912
3	Underpinning & Foundation Company	Broadway, Howard to Bleecker Street	1-19-12	9-19-15	2,295,086.50	99.7	Jan. 18, 1912
4	Dock Contractor Company	Broadway, Bleecker St. to Union Sq.	8-19-13	8-19-16	2,578,078.00	91	July 10, 1913
		Routes Nos. 4 and 36—Broadway-Fourth Avenue Subway					
2	U. S. Realty & Imp. Co.	Broadway, 26th to 38th Street	7-23-14	3-23-17	2,657,004.50	43	May 7, 1914
3	Holbrook, Cabot & Rollins Corp.	Broadway and Seventh Ave., 38th to 51st St.	9- 8-15	5- 8-17	3,740,913.50	2	Aug. 5, 1915
4	Litchfield Construction Co.	Seventh Avenue, 51st to 59th St.	5-26-15	2-26-17	1,937,509.00	3	Aug. 6, 1914

Progress on Dual System Contracts—Continued

NEW YORK MUNICIPAL LINES

City Contracts

			Contract	Time	Amount	Per Cent. of Value of Work Com-	Item Bids Published in
		Route No. 33—Broadway-Fourth Avenue Subway					
1	Assigned to Flinn-O'Rourke Co., Inc.	Whitehall St., Battery Pl. to South St.	6-17-14	2-17-17	2,059,182.00	24	Apr. 23, 1914
2	Assigned to Flinn-O'Rourke Co., Inc.	Whitehall St., Manhattan, to Montague Street, Brooklyn	7-16-14	1-16-18	5,974,809.50	21.4	June 4, 1914
3	Flinn-O'Rourke Co., Inc.	Montague Street, Clinton Street to Flatbush Avenue Extension	10- 9-14	10- 9-17	3,395,152.00	11	Sept. 3, 1914
		Route No. 20—Canal Street Subway					
2	Underpinning and Foundation Co.	Canal St., Broadway to Bowery	7-16-14	3-16-17	1,822,994.25	44	May 21, 1914
		Routes Nos. 9 and 11—Fourth Avenue, Brooklyn, Subway					
Six sections	Wm. Bradley; Smith, Scott & Co.; Tidewater Building Co. & Thos. B. Bryson and E. E. Smith Con. Co.	Manhattan Bridge to 43d Street	11- 9-09	.....	*16,014,388.26	100	
		Platform Edge Reconstruction, Fourth Avenue Subway					
	Irving Iron Works Co.	Reconstruction of edges, Manhattan Bridge to 26th Street	5-10-15	5-28-15	5,180.00	...	
		Route No. 9—Fourth Avenue, Brooklyn, Subway					
9 C-1	Samuel Beskin	Reconstruction of DeKalb Ave. Station	2- 5-15	9- 5-15	133,947.46	61.5	Dec. 10, 1914
		Removal of Temporary Sewer, Fourth Avenue Subway					
	Norton & Gorman Con. Co.	Removal of temporary sewer from Section 11-EA-1	3-31-15	5-31-15	15,233.75	100	
		Track Installation, Fourth Avenue Subway					
..	Thomas Crimmins Contracting Co.	Laying of tracks from Manhattan Bridge to 86th Street. Materials furnished by the City	7-21-14	1-21-15	210,880.00	84.9	
		Route No. 11 B—Fourth Avenue, Brooklyn, Subway Extension					
1	Degnon Contracting Co.	Fourth Avenue, 43d to 61st Street	10- 4-12	11- 1-15	1,930,258.50	94.5	Sept. 26, 1912
2	Degnon Contracting Co.	Fourth Avenue, 61st to 86th Street	10- 4-12	11- 4-15	1,904,171.25	89	Sept. 26, 1912
		Station Finish, Fourth Avenue Subway					
..	Station Construction Co., Inc.	Six stations, 43d to 86th Street	8- 6-15	8- 1-15	251,133.72	99	
		Fourth Avenue Subway—Completion of Construction and Station Finish					
.	D. C. Serber	Hanson Place to Butler Street	6- 8-15	9- 8-15	40,676.25	69.7	
		Route No. 39—New Utrecht Avenue, Brooklyn, Elevated Line					
1	New York Municipal Railway Corporation	Fourth Avenue, 33d to 38th St.; Culver Cut, Fourth Ave. to Tenth Ave.	2- 3-14	8- 3-15	.....	99	
2	Post & McCord, Inc.	New Utrecht Ave., 86th St. & Stillwell Ave., 39th St. to Coney Island	12-31-13	11- 1-15	1,672,190.00	98.3	Dec. 4, 1913
		Route No. 39—Station Construction, New Utrecht Avenue Elevated Line (Sub-Contract under N. Y. M. Ry. Corp.)					
1	Snare & Triest Co.	9th Ave. station	7-15-15	.....	23,940.00	81	
1	Frank L. Davis	Station finish for 9th Ave. station	10- 8-15	1- 8-16	16,130.00	20	
		Route No. 39—Track Installation on New Utrecht Avenue Elevated Line					
2	Ward & Tully, Inc.	New Utrecht Ave., 38th St. to Coney Island	9-10-15	2-10-16	71,355.00	1.6	July 29, 1915
		Route No. 39—New Utrecht Avenue Station Finish					
2	A. L. Guidone & Son, Inc.	From 39th St. and Tenth Ave. to Coney Island	.....	.....	513,656.54	...	
		Route No. 49—Gravesend Avenue Elevated Line					
1	Post & McCord, Inc.	Gravesend Ave., 37th St. to Bay Parkway	9- 8-15	12- 8-16	877,959.00	...	Aug. 19, 1915
2	Oscar Daniels Co.	Gravesend Ave. and Shell Road, 22d Avenue to Avenue X	7-10-15	1-10-17	863,775.00	2.6	June 3, 1915
		Route No. 9-O—Centre Street Loop Subway					
..	Bradley Con. Co.; Cranford Co.; Degnon Con. Co.	Centre Street, Brooklyn Bridge to Williamsburg Bridge	1907	.....	**$12,884,896.49	100	
		Route No. 9-O—Centre Street Loop Reconstruction					
..	New York Municipal Railway Corporation	Centre Street, Brooklyn Bridge to Williamsburg Bridge	4-25-13	.....	325,000.00	100	
..	New York Municipal Railway Corporation	Centre Street, Brooklyn Bridge to Williamsburg Bridge	2- 3-14	11- 3-14	600,000.00 (Approximate)	99.5	
		Company Contracts					
		Sea Beach Line Reconstruction					
..	G. W. McNulty, Inc.	62d & 65th Streets, between Fourth Avenue and 86th Street	10- N-15	7- 6-15	1,877,525.00	100	
..	G. W. McNulty, Inc.	Extra work on Sea Beach Reconstruction	8-19-14	7-19-15	299,539.00	100	
..	Wilson & English Const. Co.	Construction of retaining walls and bridges	7-21-14	1-21-15	281,882.50	100	
..	Post & McCord, Inc.	Construction of stations	3- 9-15	9- 9-15	331,163.03	91	
		Lutheran Cemetery Line					
1	Cooper & Evans Company	Private right of way, Wyckoff Ave. to Fresh Pond Road	8-28-13	5- 8-15	245,870.00	100	
2	F. W. Burnham	Private right of way, Fresh Pond Road to about 1,050 feet east of Fresh Pond Road	2-27-14	7-27-14	143,225.40	100	
		Lutheran Cemetery Line—Station Construction					
..	F. W. Burnham	Construction of stations	7-22-14	4 mos.*	134,354.00	100	
		Liberty Avenue Elevated Line					
..	Phoenix Bridge Company	Liberty Avenue, from Borough line to Lefferts Avenue, Queens Borough	2- 9-14	2- 9-15	707,661.00	100	
..	P. J. Carlin Const. Co.	Construction of six stations on this line	1- 6-15	6 mos.*	232,000.00	91	
		Myrtle Avenue Addition Tracks					
..	Phoenix Bridge Co.	Steel for additional tracks, Willoughby to Wyckoff Ave.	.....	.....	.....	...	
		Myrtle Avenue-Broadway Connection					
..	Terry & Tench Co., Inc.	Myrtle Avenue, Broadway to Willoughby Avenue and private right of way between Broadway and Myrtle Avenue	7-18-13	1-18-14	110,411.50	100	
		Fulton Street Additional Tracks					
..	Miliken Bros.	Steel for additional tracks,, Nostrand Avenue to Sackman Street	3-20-14	1- 5-15	466,800.00	100	
..	Terry & Tench Co.	Erectors of above	6-16-14	6-16-15	462,871.50	100	
..	John Thatcher & Son	Construction of stations	3-22-15	3 mos.*	258,664.00	66	
		Broadway Elevated Line Additional Tracks					
..	McClintic-Marshall Co.	Steel for additional tracks, Havemeyer Street to Myrtle Avenue	8-14-14	4-14-15	193,000.00	100	
..	Terry & Tench Co., Inc.	Havemeyer Street to Myrtle Avenue	10-15-14	10-15-15	321,305.70	90	
		Street to Myrtle Avenue					
..	Lewis F. Shoemaker & Co.	Steel for additional tracks, Myrtle Avenue to Aberdeen Street	3-16-15	9-16-15	279,000.00	48	
..	The Jobson-Gifford Co.	Myrtle Ave. to Aberdeen St.	9-10-15	9-10-16	400,441.70	1	
..	John Thatcher & Son	Construction of stations	9- 7-15	3 mos.*	320,325.00	...	
		Jamaica Avenue Elevated Extension					
1	Post & McCord, Inc.	Crescent Street to Myrtle Avenue	3-18-15	1-18-16	734,340.00	12	
2	Connors Bros. Co.	Myrtle Ave. to Cliffside Ave.	.....	.....	726,168.40	...	
		Fresh Pond Road Yard—Installation of Tracks					
..	Charles A. Myers Contracting Co.	Grading, tracklaying, etc.	.....	.....	17,123.48	...	
		Steel for Third-Tracking and Other Improvements					
..	American Bridge Co.	Steel for Fulton St., Coney Island terminal, East New York yard and Brighton Beach line	.....	.....	2,274,700.00	...	

* Includes $200,000 for real estate.

John Adams, formerly engr. in charge of the local power house of the Eastern Wisconsin Ry. and Light Co., and L. A. Corwin, who until recently was chief engineer for the Harris Typewriter Co., have become associated in the steam and electrical engineering business. Their office is located in the McDermott Blk., Fond du Lac, Wis.

BUILDINGS—Continued from p. 379

Tex., Wichita Falls—Contract will soon be awarded for three-story, 50x150-ft. building for A. F. & A. M. Estimated cost, $50,000. Noted Dec. 9.

Okla., Ardmore—Plans prepared for freight and passenger depot for Gulf, Colorado & Santa Fé R.R. Estimated cost, $50,000. F. Merritt, Galveston, Ch. Engr.

Okla., Muskogee—A. F. & A. M. plan to build temple in Muskogee. Estimated cost, $75,000.

Colo., Denver—Plans being prepared by M. B. Biscoe, Arch., Exchange Bldg., for four-story children's hospital. Estimated cost, $150,000.

Idaho, Payette—Plans prepared by J. R. Walker, Arch., for three-story hotel. Estimated cost, $50,000.

Wash., Tacoma—Congregation of First M. E. Church plans to build one-story, 120x120-ft. edifice next spring. Estimated cost $90,000. Fulton & Butler, 51 West Main St., Uniontown, Penn., Arch.

Calif., Los Angeles—Plans prepared by Walter Webber, Arch., Ferguson Bldg., for one-, two- and three-story fireproof tourist hotel at Lake Tahoe for Anita M. Baldwin.

Ont., Windsor—Bids will soon be received by James Pennington, Arch., La Belle Bldg., for three-story addition to school for Board of Education. Estimated cost, $100,000. A. Courtney, Secy., Bd. of Education.

Bids In and Contracts Awarded

N. H., Manchester—(Official)—Contract for isolation hospital at Derryfield Park awarded to GEORGE BAKER LONG, Worcester, Mass., at $60,150. Noted Nov. 25.

Mass., Boston—Contract for six-story, 50x70-ft. mercantile building on Elm St. for Daniel P. Collins, 7 Water St., awarded to NATHAN HURWITZ, 26 Wolcott St., Dorchester. Estimated cost, $40,000.

Mass., Boston—(Somerville)—Contract for three-story school for St. Ann's Roman Catholic Church awarded to McGAHEY & O'CONNOR, Main St., Cambridge. Estimated cost, $50,000.

Mass., Boston—(Dorchester)—Bids were received Dec. 10 for new school, in Oliver Wendell Holmes District, Dorchester, as follows: P. H. Rose Construction Co., Boston, $159,735; John Bowen, 874 Morton St., Milton, $159,844; D. R. McKillop, 137 West Brookline St., Boston, $169,300. Noted Oct. 14.

Mass., Fall River—(Official)—General contract for remodeling City Home awarded to JOHN CROWE, INC., at $89,875. A. J. Dolan, Supt. Noted Nov. 4 and 25.

Conn., Hartford—(Official)—Contract for four-story office building for Phœnix Insurance Co. awarded to CAULDWELL-WINGATE CO., 381 Fourth Ave., New York, N. Y. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for court, jail and detention home for women at 135-41 West 39th St. for City of New York awarded to EMERSON BUILDING CO., 103 Park Ave., New York. Estimated cost, $365,000. Noted Mar. 25 and Aug. 26.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for temple at 150th St. near Broadway for Mt. Neboh Congregation awarded to J. A. ZIMMERMAN & SON, INC., 18 East 41st St., New York. Estimated cost, $80,000. Noted Sept. 30 and Nov. 25.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for alterations to office building at Broadway and Rector St. for O. B. Potters Co., Inc., 71 Broadway, awarded to MARC EIDLITZ & SON, 30 East 42d St., New York. Noted Oct. 28.

N. J., Paulsboro—Contract for two-story school awarded to E. P. HENRY, Woodbury. Noted Oct. 21.

N. J., Spring Lake—Contract for five-story, 42x76-ft. addition to New Monmouth Hotel awarded to H. H. MOORE, Spring Lake. Estimated cost, $45,000. Noted Nov. 11.

Penn., Nanticoke—Contract for building for First M. E. Church awarded to NANTICOKE CONSTRUCTION CO., Nanticoke. Estimated cost, $40,000.

Penn., Philadelphia—Contract for six-story, 259x400-ft. loft building at 2nd and Market St. for Kahn & Greenberg awarded to TURNER CONCRETE STEEL CO., Philadelphia. Estimated cost, $500,000. Noted Nov. 25.

Penn., Pittsburgh—Diamond Country Market awarded contract for restaurant, arcade and market to N. V. WATSON, 215 Fourth Ave., Pittsburgh. Estimated cost, $110,000.

Va., Danville—H. A. OSBORNE & SONS, Danville, at about $40,000, awarded contract for Y. M. C. A. building for Riverside and Dan River Cotton Mills.

Ga., Savannah—F. McRAE, Savannah, awarded contract for remodeling courthouse at Bull and President St. for municipal court. Estimated cost, $50,000.

Tenn., Chattanooga—Contract for campus building for University of Chattanooga awarded to T. S. MOUDY & CO., Chattanooga, at $53,100. Noted Oct. 14.

Tenn., Nashville—(Official)—All bids received Dec. 4 for dormitories and administration building for State Polytechnic School rejected. Plans will be revised and new bids received. Estimated cost, $125,000. Noted Dec. 2.

Ohio, Cleveland—Contract for hotel on East 61st St. for G. W. Crile awarded to C. N. GRIFFIN CO., 3111 Carnegie Ave., Cleveland, at about $100,000. Noted Oct. 21 and Dec. 2.

Ohio, Cleveland—Contract for restaurant and store building for Peter Schmitt, Lake Shore Blvd., awarded to L. A. WEISMAN, 868 East 95th St., Cleveland. Estimated cost, $45,000.

Ind., Indianapolis—Contract for gymnasium for University of Indiana awarded to A. E. KEMMER, La Fayette, at $167,200.

Ind., Indianapolis—Contract for library at Meridian and St. Clair St. for city awarded to GEORGE H. FULLER & CO., Chicago, Ill.

Ind., Owensville—Contract for township school awarded to WALTER VAN HOY, Loogootee, Ind., at $54,800. Noted Oct. 7.

Mich., East Lansing—Contract for gymnasium at Michigan College of Agriculture awarded by State Board of Agriculture to HOERST CONSTRUCTION CO., Grand Rapids, at $[illegible],000. Noted Nov. 11.

Mich., Kalamazoo—(Official)—Contract for Nurses' Home for Kalamazoo State Hospital awarded to J. J. WOLFFE. Estimated cost, $56,000. Noted Dec. 2.

Minn., Minneapolis—Contract for theater at 1021 East Franklin Ave. for C. E. Marr awarded to CHARLES E. HOAGSTROM. Estimated cost, $40,000.

Minn., St. Paul—(Official)—GEORGE J. GRANT CONSTRUCTION CO., St. Paul, at $397,324, awarded contract for Minnesota Historical Society Building. Noted Oct. 28 and Dec. 2.

Neb., Florence—Contract for administration building for House of Hope awarded to THOMAS HERD, Florence. Estimated cost, $50,000.

Mo., Kansas City—Contract for theater, store and office building for Altman Realty Co., Altman Bldg., awarded to MARTIN CARROLL CONSTRUCTION CO., 1118 McGee St., Kansas City. Estimated cost, $100,000.

Mo., St. Joseph—(Official)—Contract for five-story building at Eighth and Felix St. for Bartlett Bros. Land and Loan Co. awarded to HOGGSON BROS., Chicago, Ill. Noted Dec. 2.

Tex., Greenville—SHEPPARD BROS. awarded contract for administration building for Wesley College. Estimated cost, $50,000. Noted Dec. 9.

Tex., Houston—Contract for Taylor School awarded to REINHART & DONOVAN, Oklahoma, Okla., at $56,000. Noted Nov. 4 and 9.

Calif., Suisun—Contract for school awarded to H. L. PETERSON, San Francisco, at about $40,000.

B. C., Vancouver—Contract for depot for Great Northern Ry. Co. awarded to COAST CONTRACT CO., Vancouver. Estimated cost, $750,000. Noted Dec. 2.

Contractors' Efficiency Course—A number of New York City contractors are getting together, under the direction of the Emerson Institute, of which Harrington Emerson, the efficiency engineer, is dean, to study efficiency and scientific management methods as applied to contracting and engineering work. This is probably the first concerted attempt ever made by a number of contractors to get together and study the possibilities of the so-called "efficiency movement." A course of 16 sessions has been laid out, to be held in the rooms of the Packard School, 35th St. and Lexington Ave., beginning Jan. 10, 1916. The sessions will be divided into two parts, lecture and laboratory. The lectures will summarize what has been done by such men as Mr. Emerson, Frederick W. Taylor, Frank B. Gilbreth, along the lines of organization, motion study and standardization of conditions and operations in engineering construction. The laboratory work will give the students actual practice in the methods of analyzing operations, hunting down waste motion and eliminating it, making motion studies, etc. The solution of two or more problems of this nature will be required in connection with each laboratory period. Among the reference books to be used are Gilbreth's Motion Study, Field System, Bricklaying System, Primer of Scientific Management, Taylor's Principles of Scientific Management, Taylor and Thompson's Concrete Costs, Gillette's Cost Data, Hauer's Economics of Contracting, Davies' Engineering Office Systems and Methods, Emerson's Efficiency. Only contractors and their men will be admitted to the course. The instructor will be George F. Barber, president of the Efficiency Club of New York, who has been associated with Mr. Emerson for several years as a teacher of efficiency.

Blaine S. Smith, Gen. Sales Mgr., Universal Portland Cement Co., Chicago, Ill., was elected General Secretary of the Chicago Association of Commerce at the annual meeting, Dec. 8. He has served the association actively for several years as chairman of the Illinois Committee and until now as chairman of the Ways and Means Committee Council. Mr. Smith has an enviable record of achievement, both in his association work and as head of the sales organization of the Universal Portland Cement Co., to which position he was appointed early this year.

Edwin G. Booz, former statistician of the Produce Corporation, of Chicago, Ill., has recently organized the Business Research Service and has been made its Director. This service is the first of its kind in the Central West and is designed to meet the new demand on the part of manufacturers, sales and advertising managers and advertising agencies for a skilled research service in the field of business. Particular attention will be paid to the subject of investigating market conditions in different fields and industries, and also to making studies and investigations for trade and commercial organizations of various kinds. Mr. Booz has served as director of the Research Department of the largest woman's magazine in its field, also for a large Chicago newspaper and several corporations in the East. The offices of the Business Research Service are located in the Otis Bldg., Chicago.

CATALOG NOTICES

The Terry Steam Turbine Co., Hartford, Conn. Bulletin No. 20. "The Terry Turbine." Illustrated, 8 pp., 8½x11 in.

American Clay Machinery Co., Bucyrus, Ohio. Catalog. Steam shovels. Illustrated, 40 pp., 8x11 in. Catalog. Haigh continuous kiln. Illustrated, 32 pp., 8½x10½ in.

Carnegie Steel Co., Pittsburgh, Penn. Pamphlet. "Steel Sheet Piling—Tables and Data on the Properties and Uses of Sections." Illustrated, 96 pp., 5x7½ in.

Pelton Water Wheel Co., San Francisco, Calif. Circulars printed in English, Spanish and Portuguese. Pelton water wheels adapted for different purposes. Illustrated, 4 pp., 7½x10½ in.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New Hampshire—Boston & Maine R.R., Boston Mass., plans to electrify its Portsmouth & Dover branch, Portsmouth. F. B. Freeman, Boston, Mass., Ch. Engr.

New York—City Council, Buffalo, denied franchise to International Ry. to build double-track extension on Washington St. between Ohio and Perry St. and granted franchise for extension on Ohio St. from Washington to Main St. J. C. Sheldon, Buffalo, Pur. Agt. Noted Dec. 9.

Pennsylvania—R. B. Williams, Scranton, Penn., interested in construction of railway from Schenectady, N. Y., to Bloomsburg, Penn.

Virginia—Norfolk & Western Railway plans to construct second track from Walton to Ripplemead, 8.05 miles, next year. J. E. Crawford, Roanoke, Ch. Engr.

West Virginia—Surveys being made by Baltimore & Ohio R.R. for line along Big Sandy River near Beaver Creek, Ky. Company has also secured right-of-way for line on left fork of Beaver Creek into Beaver Falls. F. L. Stuart, Baltimore, Md., Ch. Engr.

West Virginia—Appalachian Power Co., Bluefield, contemplated 1 mile extension to line. Herbert Markle, Bluefield, Gen. Mgr.

North Carolina—Atarka Valley R.R. Co., Bryson City, recently incorporated, plans to build a railway from Bryson City to Falls of Atarka Creek, 12 miles. Arthur Brooks, Buckhannon, W. Va., and Leslie Brooks, Bryson City, interested.

North Carolina—Durham Traction Co. contemplates 2.6 mi. extension in Durham. R. L. Lindsay, Durham, Pur. Agt., Audr. and Gen. Mgr.

Georgia—Savannah & Atlanta Railway Co., recently incorporated with $500,000 capital stock, will build a line from St. Clair to a connection with Georgia R.R., about 35 miles, thence to Washington, Ga., 25 miles. Line will be extension of Savannah & Northwestern Ry. John H. Hunter, Henry D. Stevens and Edwin M. Frank, Savannah, Ga., interested. L. B. Ackerman, Savannah, Ch. Engr., Savannah Northwestern Ry.

Mississippi—S. M. Anderson, Greenwood, and associates plan to build a railway from Greenwood via Ittabena to Schlater, about 46 miles, and to Black Hawk.

Mississippi—According to press reports Gammill Lumber Co., Pelahatchee, plans to build standard gage railway in Pearl River Valley.

Tennessee—Nashville, Chattanooga & St. Louis Railway will enlarge yards at Hollow Rock Junction. H. McDonald, Nashville, Ch. Engr.

Tennessee—Tennessee Valley Iron and Railroad Co., Clifton, plans to extend its line from Collinwood to Savannah, Tenn., providing county will vote bonds to pay part of cost.

Ohio—Baltimore & Ohio Railroad Co. plans an expenditure of $1,240,000 for double-tracking its line between Midland City and Cincinnati, and for second track and track elevation through Defiance. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio—Mt. Vernon Railway Co. contemplates 2-mile extension to line in Mt. Vernon. Charles Weirick, Columbus, Supt.

Ohio—Northern Ohio Traction and Light Co. plans 0.7-mile extension of line in Akron and 9.4 miles of double-track line from Akron to Cleveland for cutoffs. Charles Currie, Akron, Vice-Pres. and Gen. Mgr.

Ohio—Wheeling & Lake Erie R.R. will soon award contract for three-mile spur to circle east boundaries of Canton. Estimated cost between $200,000 and $250,000. W. L. Rohback, Cleveland, Ch. Engr. Noted Nov. 18.

Indiana—Chicago, Lake Shore & South Bend Railway Co., Michigan City, contemplates four-mile loop in south and southwest sections of Gary. R. Antibus, Michigan City, Ch. Engr.

Michigan—Robert Oakman, Detroit, received franchise for electric railway between Hamilton Blvd. and Grand River Ave., old city limits and Highland Park.

Minnesota—Minnesota-Northwestern Electric Ry., Thief River Falls, plans to build 20 mi. of new line. H. W. Protzeller, Thief River Falls, Secy. and Gen. Mgr.

Kansas—Manhattan City & Interurban Ry. contemplates 1-mile extension to line in Manhattan City. T. B. Waller, Manhattan City, Ch. Engr.

Montana—Commercial Club of Ft. Benton appointed committee to make investigations on construction of railway, about 1 mile. L. D. Sharpe, C. O. Vowell and C. W. Hudson, interested.

Illinois—Illinois Traction System contemplates railway between Jefferson City and Columbia, Ill. H. J. Vance, Peoria, Pur. Agt.

Arkansas—Yellville, Rush & Mineral Belt Railway Co., Yellville, recently incorporated with $140,000 capital stock, plans to build railway from Yellville southeast along Mill Creek to Cowan Barrens, Clabber Creek and Buffalo River to mouth of Panther Creek. J. C. Shepherd, Rush, Pres.

Texas—Corpus Christi Railway and Light Co. contemplates 1-mile extension to line in Corpus Christi.

Texas—Houston, Richmond & Western Traction Co. plans branch line from Seguin to New Braunfels. E. Kennedy, Pres.

Texas—Northern Texas Traction Co. received franchise from Board of Commissioners, Dallas, for extension of line on Jefferson St. from Pak Cliff Viaduct to Commerce St. C. F. Hollerder, Dallas, Pur. Agt. Noted Sept. 30.

Texas—Plans being considered by Pecos Valley Railroad Association for gasoline-electric interurban railway from connection with Kansas City, Mexico & Orient Ry. of Texas, northwest via Buena Vista, 35 miles up Pecos Valley.

Oklahoma—Surveys will be made for interurban railway from Bartlesville to Pawhuska. Illuminating Oil Co., Bartlesville, interested.

Idaho—Pocatello Traction and Interurban Co., recently incorporated with $100,000 capital stock, will construct a railway about seven miles long. Richard Douglas, Pres. Noted Dec. 16.

Utah—Ogden, Logan & Idaho Railway Co. plans to build new line from Ogden to Harrisville and from Hot Springs to Brigham City, 22 mi.

Washington—A. Van Eppes, Leavenworth, interested in railway from Leavenworth to Icicle, 25 miles.

California—Surveys made by Engels Copper Co., Taylorsville, for narrow gage railway from its mine to connect with Western Pacific Railway near Keddie, seven miles. Noted Oct. 21.

California—Fresno Interurban R.R. Co. plans to build railway from Fresno to Clovis and from Fresno to Centerville during 1916, about 18½ mi.

California—Press reports state that Santa Fé System contemplates line from Needles, Calif., to Oatman, Ariz. F. W. Felt, Chicago, Ill., Ch. Engr., Atchison, Topeka & Santa Fé System.

New Brunswick—Moncton Tramways, Electricity and Gas Co., Moncton, plans to build about 1½ miles of track next year. E. B. Keeser, Farmers Bldg., Pittsburgh, Penn., Vice-Pres. and Gen. Mgr.

New Brunswick—Bids will be received until noon, Dec. 30, by I. R. Todd, Pres., St. John & Quebec Railway Co., Fredericton, N. B., to complete portion of railway (Canadian Government Rys.), between Georgetown and Centerville. C. B. Brown, Moncton, N. B., Ch. Engr. Noted Dec. 2.

Ontario—Press reports state that government received application from firm of lawyers of Ft. William for charter for railway to be known as Manitoba & Ontario Ry., to be built between Ft. William and Lake of the Woods, Man.

British Columbia—Surveys being made by Canadian Northern Railway System for line from Kamloops southeast via Vernon and Kelowna to Lumby, 141 miles, also on Island of Vancouver from Alberni to Nootka Sound, 15.6 miles. F. W. Vancouver, B. C., Gen. Supt.

Bids In and Contracts Awarded

California—Board of Public Works, San Francisco, awarded contract for extension of Church St. line from 18th to 22d St. to CONTRA COSTA CONSTRUCTION CO., at $120,500. M. M. O'Shaughnessy, City Engr. Noted Nov. 18.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Brandon—Hortonia Power Co. will issue $500,000 bonds. Proceeds will be used for developing Silver Lake water-power project.

Vt., Hardwick—City plans to extend lighting service to East Hardwick, Greensboro, Greensboro Bend and Craftsbury. Estimated cost, $11,626.

Mass., Newburyport—Newburyport Gas and Electric Co. will build plant on Water St. at Merrimac River. Estimated cost, $200,000.

Conn., Winsted—Plans being prepared for hydro-electric power plant for Winsted Gas and Electric Co. Estimated cost, $100,000.

N. Y., Batavia—Chester & Fleming, Engr., Union Bank Bldg., Pittsburgh, Penn., retained by city to prepare plans for electric-light plant and water and sewer systems. Citizens recently voted $175,000 bonds for this purpose.

N. Y., Cobleskill—Courter Electric Co. will build high-tension transmission line from Ft. Plain to Cobleskill through towns of Milton, Canajoharie and Sharon.

N. Y., New York—(Borough of Richmond)—Richmond Light and Railroad Co., New Brighton, applied to Public Service Commission for permission to enlarge and improve its plant.

Penn., Ellwood City—Mahoning & Shenango Railway and Light Co., Youngstown, Ohio, has purchased plant of Pennsylvania Power Co., Ellwood City, and will improve same, work to include construction of dam. Estimated cost, $150,000. Noted Dec. 16.

Penn., Monroeton—Press reports state movement is on foot to organize company to build electric-light plant in Monroeton.

Penn., Philadelphia—Philadelphia Electric Co. considering proposition to build large electric-power plant in northeastern section of city.

Fla., Ft. Pierce—See item under "Water-Works."

Fla., Jacksonville—Eagle Film Manufacturing and Producing Co. will build electric-light plant. A. S. Roe, Pres.

Fla., Okeechobee—See item under "Sewers."

Miss., Columbus—Election will soon be held to vote on $10,000 bonds for municipal electric-light plant.

Miss., Oxford—City will issue $6,500 bonds for improving electric-light plant. J. H. Lawshee, Clk.

Miss., Pass Christian—City contemplates $7,000 bond issue for improving electric-light system. X. A. Kramer, Magnolia, Engr.

Miss., Wesson—See item under "Water-Works."

La., Washington—Plans being considered for municipal electric-light plant.

Tenn., Chattanooga—Tennessee River Power Co., Chattanooga, approved plans for development of water-power of Caney Fork River, near Rock Island. Work will include dam and powerhouse having output of 40,000 hp.

Tenn., Maryville—Aluminum Co. of America plans to build power dam at Maryville in connection with new plant.

Ohio, Massillon—City engaged H. O. Swoboda, Consult. Engr., Pittsburgh, Penn., to prepare plans for electric-lighting system.

Ill., Macomb—Plans being considered for installing municipal electric-light plant in Macomb.

Ill., Olney—City Council considering installation of electric-lighting system.

Ill., Poplar Grove—(Official)—Illinois Northern Utilities Co., Dixon, will build transmission line from Capron to Poplar Grove. Noted Dec. 9.

Wis., Lowell—(Official)—Bids will be received until Jan. 1 by W. F. Pease, Engr., for electric-light plant and power station. Estimated cost, $10,000. Noted Nov. 25.

Wis., Merrill—Merrill Railway and Lighting Co. plans to build high tension transmission line from Merrill to Wausau. Plans include development of Trappe Rapids water power of Wausau Street Railway Co.

Wis., Prentice—D. Y. Parkinson, Ashland, and J. E. Feely, Fifield, will install and operate electric-light plant in Prentice.

Wis., Wauwatosa—County Board of Control revived project to build central heating and lighting plant in Wauwatosa. Estimated cost, $355,000. O. Broecker, Secy.

Iowa, Cumberland—City contemplates municipal electric-light plant.

Minn., Carver—Minnesota General Electric Co., Minneapolis, will install electric-lighting system in Carver.

Minn., Rochester—Press reports state that Commercial Club plans to purchase holdings of Zumbro Power Co. at Zumbro Falls for city and to develop same to generate electricity for Rochester and other cities. Estimated cost of project about $979,000.

Kan., Arkansas City—Citizens voted $14,000 bonds for gas distribution plant and pipe line to field southwest of city. Noted Nov. 25

Kan., Dwight—R. B. Fegan Co., Junction City, will install electric-light and power system in Dwight.

Kan., Eskridge—Citizens contemplate municipal electric-light plant.

Kan., Sharon Springs—City will issue $10,000 bonds for electric-lighting system.

Mont., Scobey—Plans being considered by Scobey Electric Light Co. for improving and enlarging its plant.

Mo., Flat River—City contemplates installing electric-light plant and water-works.

Mo., Memphis—City contemplates municipal electric-light plant. E. McDaniel, Clk.

Mo., St. Louis—Laclede Gas Light Co. applied to city for franchise to place high-tension electric wires in underground conduits for two miles and to extend electrical service in western and northern sections of city.

Mo., Shamrock—Power house will be constructed by Sapulpa & Oil Fields R.R. S. W. Barnes, Kansas City, Supt.

Tex., Sherman—Texas Traction Co. will rebuild substation recently destroyed by fire.

Okla., Welch—See item under "Water-Works."

Colo., De Beque—Rifle-De Beque Oil and Gas Co. will build heating plant. Estimated cost, $7,000.

Colo., Golden—N. W. Osborne, John Reynolds and John Wallace appointed as committee to make investigations and submit report for installing electric-light plant in Golden.

N. M., Roswell—Roswell Gas and Electric Co. plans to improve its plant. Estimated cost, $20,000.

Idaho Falls, Idaho—J. A. Jones and E. G. Kindred contemplate installation of gas plant at Idaho Falls.

Wash., Seattle—City contemplates election in March to vote on $3,000,000 bonds for additional power plant, if present plans are agreed upon.

Calif., San Francisco—State Railroad Commissioners received application from Pacific Gas and Electric Co. for permission to issue $2,500,000 capital stock for enlarging and improving its plant.

Ont., Harriston—Bylaw passed by Council authorizing raising of $4,000 for hydro-electric power plant. Noted Aug. 5.

Bids In and Contracts Awarded

Mass., Worcester—E. J. CROSS CO. awarded contract for addition to plant of Worcester Electric Light Co. Estimated cost, $10,000.

Penn., Contesville—Contract for one-story, 43x170-ft. boiler house for Worth Bros. Co. awarded to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia.

Ga., Davisboro—(Official)—Contract for electric-light plant awarded to FAIRBANKS, MORSE & CO., at $5,000. Noted Dec. 9.

Wis., Milwaukee—Contract for steel work on boiler house for A. C. Smith awarded to MILWAUKEE BRIDGE CO., Milwaukee. Estimated cost of house, $40,000.

Mo., New Madrid—Contract for addition to electric-light plant awarded to FAIRBANKS-MORSE CO., St. Louis, at $15,065. Noted Nov. 18.

BRIDGES

Proposed Work

N. J., Jersey City—Central R.R. of New Jersey applied to City Commission for permission to build viaduct over Phillips St.

Penn., Beaver—(Official)—Bids will be received until noon, Dec. 28, by County Controller, for bridge over Sewickley Creek. J. G. Chalfont, Pittsburgh, County Engr.

Penn., Harrisburg—City will build bridge across tracks of Pennsylvania R.R. at Walnut St. Estimated cost, $300,000.

W. Va., Huntington—Huntington-Chesapeake Bridge Co. granted franchise by City Commission to build bridge across Ohio River from Huntington to Chesapeake, Ohio. J. C. Miller, interested. Noted Oct. 28.

N. C., Pineola—County Highway Commission, Newland, will soon award steel contract for bridge across Linville River. G. Love, Engr.

Fla., Bradentown—Election will be held Jan. 18 in Manatee County, Special Road and Bridge District, Precinct No. 10, to vote on $75,000 bonds for bridges, culverts and roads. M. G. Rushton, Chn. of County Comrs.

Miss., Mendenhall—Contract will be awarded by Supervisors of Simpson County about Jan. 3 for steel bridge across Sanders Creek, near Braxton, and one across Limestone Creek, near Harrisville.

Ohio, Dayton—City has had plans prepared for bridge at Fifth St.

Ohio, Willoughby—According to press reports plans being considered for bridge across Chagrin River. Estimated cost, $100,000. J. P. Curtiss, interested.

Ind., Washington—Bids will be received by County Auditor until 2 p.m., Dec. 30, for steel bridge.

Ill., Rockford—(Official)—Bids will be received by H. J. Gallagher, Chn. of Street and Alley Com., until 1:30 p.m., Jan. 26, for reinforced-concrete bridge over Rock River at Morgan St. Estimated cost, $83,000. (See adv.)

Wis., Green Bay—Bids will soon be received for bridge across Duck Creek. Estimated cost, $12,000.

Wis., Milwaukee—Milwaukee County Circuit Court has decided that Chicago, Milwaukee & St. Paul Ry. must rebuild Grand Ave. viaduct. Estimated cost, $60,000.

Iowa, Iowa City—H. Hughes, City Engr., has recommended concrete bridge across Iowa River and one across Ralston Creek to City Council. Estimated cost, $75,000 and $15,000 respectively.

Iowa, Knoxville—Bids will be received by J. D. Schlotterbach, County Audr., until 1:15 p.m., Jan. 18, for constructing bridges and culverts.

Minn., Amboy—Concrete arch bridge will be constructed over Blue Earth River by county. C. L. Kennedy, Mankato, County Audr.

Minn., Colerain—Duluth, Missabe & Northern Ry. plans to build several steel bridges. H. L. Dresser, Duluth, Ch. Engr.

Minn., Mankato—Bridge will be built across Minnesota River at Main St. D. D. Price, Lincoln, Neb., Engr.

Minn., Wadena—Bids will be received by County Auditor until Jan. 4 for State Bridge No. 1739 across Wing River.

Kan., Hutchinson—Plans will soon be prepared by G. L. McLane, City Engr., for two reinforced-concrete bridges over Cow Creek at Plum St. and Avenue F. Estimated cost, $6,000 each.

Neb., Omaha—Bids will be received until noon, Dec. 31, by Commissioners of Douglas County, for constructing and repairing bridges during 1916.

Ark., Texarkana—Plans prepared by Harrington, Howard & Ash, Consult. Engr., Kansas City, Mo., for bridge across Red River. Noted Nov. 25.

Tex., Ft. Worth—Commissioners of Tarrant County plan to rebuild Park St. bridge, recently destroyed by flood. Estimated cost, $7,500.

Colo., Denver—All bids recently received for bridge across Huerfano River north of Walsenburg rejected. New bids will be received. Estimated cost, $13,000. Noted Oct. 28.

Colo., Sterling—Bids will be received by County Clerk until 1 p.m., Dec. 28, for four bridges across South Platte River.

Idaho, Sandpoint—Bids will be received by Clerk of County Commissioners until Jan. 15 for superstructure and piers of bridge over Pend d'Oreille River at Priest River. Estimated cost, $22,000. C. J. Chaffins, County Engr.

Wash., Wenatchee—Surveys made by A. Warren, County Engr., for steel bridges across Wenatchee River at end of Wenatchee Ave.

Ore., McMinnville—Press reports state that $26,430 will be expended for bridge work in 1916.

Ore., Portland—Bids will be received by A. L. Barbur, County Audr., about Dec. 29, for reinforced-concrete viaduct for extension of Union Ave. Estimated cost of viaduct, $53,000; fill, $13,000. Noted Sept. 30 and Nov. 18.

Calif., Los Angeles—Press reports state that bridge will be constructed across tracks of Pacific Electric Ry. at Western Ave. Estimated cost, $13,000.

Calif., San Francisco—State Board of Harbor Commissioners will soon award contract for 225-ft. viaduct on Market St.

Calif., Santa Barbara—A. V. Saph, Engr., University of California, Berkeley, preparing plans for bridge across Santa Ynez River. Estimated cost between $100,000 and $125,000.

Ont., Wardsville—Council of Middlesex County plans to build bridge at Wardsville. C. Talbot, County Bldg., London, County Engr.

Bids In and Contracts Awarded

N. J., Atlantic City—Contract for bridge over Mullica River at Chestnut Neck near New Gretna awarded to GEORGE S. BENNETT, Mt. Vernon, N. Y. Noted Nov. 18.

Penn., Erie—(Official)—State Highway Department, Harrisburg, awarded contract for bridge near Kearsarge, Erie County, to B. W. BLYSTONE, Cambridge Springs, at $5,119. Noted Dec. 2.

Penn., Philadelphia—(Official)—Bids were received Dec. 14 for Diamond St. bridge over connecting railway as follows: Cantrell Construction Co., Philadelphia, $60,715; Keystone State Construction Co., $62,500; Bran & Stuart, $64,000. Noted Dec. 9.

Miss., Meridian—Contract for culvert on 17th Ave. between Fourth and Fifth St. awarded to JOHN E. WRIGHT at $11,000.

Ill., Ludlow—Contract for bridge on line of Kankakee & Urbana Traction Co., north of Ludlow, awarded to CENTRAL STATE BRIDGE CO., Indianapolis, Ind.

Ill., Watseka—(Official)—Contract for bridge in Douglas Township, Iroquois County, awarded to JOHN J. O'HERON CO., 326 West Madison St., Chicago, at $9,600. Noted Dec. 2.

Neb., David City—(Official)—Contract for bridge work during 1916 awarded to NEBRASKA CONSTRUCTION CO., Lincoln. Noted Dec. 9.

Mo., Warsaw—(Official)—All bids received Dec. 14 for bridge over Pomme de Terre River rejected. B. R. Burton, County Clk. Noted Dec. 2.

Tex., Dallas—(Official)—Commissioners of Dallas County awarded contract for bridge over Bachman Creek to KELIN BROS. CO., Dallas, at $4,500.

Tex., Llano—Contract for three low-water bridges awarded to MIDLAND BRIDGE CO., Kansas City, Mo. Citizens recently voted $24,000 bonds for bridge work.

N. M., Las Cruce—Contract for four bridges in Dona Ana County awarded to EL PASO BRIDGE AND IRON CO., El Paso, at $24,000.

Wash., Seattle—P. MASON, 2407 Boylston Ave., N., Seattle, at $5,787, awarded contract for 23d Ave. bridge. Noted Dec. 9.

Wash., Stevenson—COAST BRIDGE CO., Portland Ore., at $13,940, awarded contract for bridge near Section 37, Township 3.

Calif., Merced—Contract for bridge across San Luis Creek west of Los Banos awarded to WEST SIDE CONSTRUCTION CO., Los Banos, at $6,427.

WATER-WORKS

Proposed Work

Maine, North Anson—Citizens voted $40,000 bonds for 14-in. pipe line from Hancock Pond to end of Madison and Anson bridge.

Mass., Salem—City will construct additional water supply system. Estimated cost, $120,000. J. Clifford Entwisle, City Clk.

N. Y., Albion—State Conservation Commission approved plans for water supply system at Eagle Harbor. J. F. Witmer, Buffalo, Consult. Engr. Noted Sept. 16.

N. Y., Batavia—See item under "Light, Heat and Power."

N. Y., Cobleskill—Citizens voted to extend water mains in North Grand St. Estimated cost, $4,000.

N. Y., Rochester—City will sell $1,270,000 bonds, of which $200,000 will be used for improvements to water-works and $250,000 for sewage-disposal plant.

N. J., Branchville—Common Council plans municipal water system.

N. J., Far Hills—F. S. Tainter, Engr., 55 Wall St., New York, N. Y., retained to submit plans for municipal water works system. Estimated cost, $20,000. L. V. Ludlow, in charge. Noted Dec. 16.

N. J., Irvington—Town Commission considering installation of municipal water and electric-light plant. I. J. Casey, City Engr.

Penn., Fleetwood—(Official)—Bids will not be received until the spring for a water system. Estimated cost, $10,000. Noted Nov. 11.

Penn., Greenville—Citizens will improve water-works system.

Penn., Lancaster—City Council plans to install electrically driven centrifugal pumps in water-works plant. James W. Armstrong, Baltimore, Md., Consult. Engr.

Penn., Ringtown—Citizens voted $12,100 bonds for municipal water system. Noted Oct. 7.

Penn., Windsor—State Department of Health authorized city to construct reservoir and install water-works system.

Md., Baltimore—James H. Preston, Mayor, reported in favor of installing water meters in all buildings except two-story buildings with frontage of 12 ft. Estimated cost, $1,500,000. H. K. McKay, City Engr. Noted Dec. 16.

W. Va., Benwood—City will build well-water system, about May 1. Estimated cost, $45,000. Carl Strouts, Mayor.

W. Va., Warwood—City plans to build well-water system next spring. Estimated cost, $258,265. T. M. Haskins, Dir. of Pub. Ser., Wheeling. C. B. Coowe and C. C. Smith, Engrs.

N. C., Beaufort—City contemplates water and sewer systems.

N. C., Fayetteville—City will improve water system.

N. C., Hendersonville—Gilbert C. White, Consult. Engr., Charlotte, retained by city to investigate proposed improvement of water-works.

N. C., Lillington—City contemplates water and sewer systems.

N. C., Salisbury—See item under "Sewers."

Ga., Tifton—City plans to improve water system. Estimated cost, $21,000.

Fla., Ft. Pierce—W. R. Jackson, City Clk., will sell $25,000 bonds, Jan. 5, for improving water-works, sewers, streets and light systems.

Fla., Okeechobee—See item under "Sewers."

Miss., Wesson—Bids will be received until Jan. 4 by Paul Burt, City Clk., for water system and electric-light plant. M. L. Culley, Jackson, Miss., Engr. Noted Nov. 18.

La., Covington—Citizens will hold election Jan. 1 to vote on $71,000 bonds for municipal water-works and sewer system.

Tenn., Coster—(Knoxville post office)—Southern Ry. will build a 48,000-gal. water tank at Coster. B. Herman, Washington, D. C., Ch. Engr.

Tenn., Sharon—City voted $15,000 bonds for water-works plant.

Ohio, Athens—Contract for water system will be let early in spring. Estimated cost, $40,000. Noted Nov. 11.

Ohio, Hamilton—(Official)—Bids will not be received for three 10-in. wells and intake for water-works system. Joseph B. Myers, Dir. of Pub. Ser. Noted Dec. 9.

Ind., Orleans—Orleans Water Co., J. B. Marvin, Engr., preparing plans for water works system. Estimated cost, $50,000. C. J. Post, City Clk. Noted Dec. 16.

Mich., Hamtramck—(Official)—Detroit Water Board will lay water mains in Mitchell, McDougall and Chester Ave. by day labor. Noted Dec. 9.

Ill., Danville—Bids will be received by Board of Water Commissioners until Jan. 10 for reinforced-concrete rapid sand filter having capacity of 300,000 gal. Chester & Fleming, Pittsburgh, Penn., Engr.

Ill., Waukegan—See item under "Sewers."

Wis., Milwaukee—City Council directed F. G. Simmons, Commissioner of Public Works, to advertise for bids, for extending Linwood Ave., intake water tunnel 2,500-ft. Estimated cost, $555,000. Noted Dec. 2.

Wis., Sheboygan—Citizens will construct water works system. C. U. Boley, City Engr.

Minn., Crosby—Crosby Water and Light Co. will soon award contract for six miles of 6-, 8- and 10-in. water mains.

Minn., Duluth—Citizens contemplate construction of water system. C. S. Palmer, City Clk.

Minn., Swanville—Contract will be let early next spring for water system, for which citizens recently voted $9,000 bonds. Noted Nov. 18.

Kan., Coffeyville—Citizens will hold election Dec. 28 to vote on $20,000 bonds, to purchase water works equipment. Charles E. Stromquist, Supt. Water and Light Dept.

Kan., Tonganoxie—Citizens contemplate municipal water-works system.

S. D., Morristown—Town Board plans to install water works system next spring.

Mont., Broadview—County Commissioners rejected all bids for water system. New bids will be received. Estimated cost, $30,000. F. E. Williams, City Clk. Noted Nov. 11.

Mo., Flat River—See item under "Light, Heat and Power."

Ark., Dardenelle—H. D. Evans, Supt. of Water System, has recommended following improvements: 7,000 ft. of 6-in. and 1,720 ft. of 3- and 4-in. pipe, one 65-ft. well, reservoir with 170,000 gal. capacity, brick pumping station, oil engine and three stage pumps. Noted Nov. 4.

Tex., Ennis—Citizens will build filtration plant.

Tex., Tyler—Citizens will vote Jan. 4 on $250,000 bonds for municipal water-works plant and distributing system.

Okla., Commerce—Citizens will hold election Dec. 30, to vote on $40,000 bonds for water works system. Benham Engineering Co., Oklahoma City, will have charge of work. Charles R. Martin, City Clk. Noted Nov. 25.

Okla., Walter—Bonds for $7,500 voted by citizens for water system.

Okla., Welch—Citizens will install water-works and electric-light plant. Estimated cost, $32,000.

Okla., Wilson—At recent election citizens defeated bonds for water-works system.

N. M., Springer—J. S. Bowman is interested in installation of water system in Springer.

Ore., Baker—(Official)—Bids will be received until Jan. 3, for improving municipal water system. Estimated $110,000. L. R. Stockman, City Engr. Noted Oct. 22.

Calif., Banning—All bids recently received for water system in District No. 1 rejected. New bids will be received.

Calif., Oakland—J. S. Bragg, San Francisco, presented plan to State Water Commissioner, Sacramento, for water supply system for cities of Oakland, Berkeley, Alameda and Stockton. Estimated cost, $1,000,000.

Calif., Sacramento—City will install pump for city water-works. Estimated cost, $17,000.

Que., Aylmer—Board of Public Works considering installation of electric pumping plant. E. Mulherbe, City Clk.

B. C., North Vancouver—City will install water system east of the Seymour River. J. E. Farmer, City Clk.

Australia—Tasmania, Hobart—(Official)—Bids will be received by Mayor and Board of Aldermen until 4 p.m., Jan. 24, for about 42,000 lin.ft. of water pipe. (See adv.)

Bids In and Contracts Awarded

Conn., New Britain—Contract for borings for course of the new pipe line awarded to C. L. GRANT CO., Hartford. William H. Hall, City Engr.